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प्राधिकार से प्रकाशित
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No. 21] NEW DELHI, SATURDAY, MAY 23, 1987 (JYAISTHA 2, 1909)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III--खण्ड 2

[PART III--SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

(Notifications and Notices issued by the Patent Office relating to Patents and Designs)

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Calcutta, the 23rd May 1987

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1--67GI/87

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CORRIGENDUM

(1)

1. In the Gazette of India, Part III, Section 2, dated 7-3-1987 the heading "Applications for Patents filed in the Patent Office Branch at Toddi Estate, 3rd Floor, Sun Mil Compound, Lower Parel (West), Bombay 400 013" on page No. 162 & 163

(i) in respect of Patent Application No. 344/Bom/86 in the title of invention for "BUILT" read "BUILT".

(ii) in respect of Patent Application No. 357/Bom/86 the title of invention "THE SYNTHESIS OF N-ALKYL MALEIMIDES. AMINO SUCCINAMIDES" read "THE SYNTHESIS OF N-ALKYL MALEIMIDES".

(iii) in respect of Patent Application No. 358/Bom/86 for Application No. "357/Bom/86" read "358/Bom/86".

(iv) in respect of Patent Application No. 365/Bom/86 in the title of invention "FO" read "FOR".

2. In the Gazette of India, Part III, Section 2, dated 22-2-1986 under the heading "Complete Specification Accepted" on page No. 123.

(i) in respect of Patent Application No. 248/Bom/1983 a line "COMPLETE AFTER PROVISIONAL LEFT ON 12TH NOVEMBER 1984" read after date of filing of the application.

(2)

I

In the Gazette of India Part III Sec. 2 dated 3-1-87 in the Page 15 item 1 under heading "Opposition Proceedings" (Application No. 151927).

The line "1984 has been dismissed and ordered that a Patent....." should read as "1984 has been dismissed subject to amendment in the specification and ordered that a Patent....."

II

In the Gazette of India Part III Sec. 2 dated 3-1-87 in Page 15 item 2 under heading "Opposition Proceedings" (Application No. 157928).

The line "1984 has been dismissed and ordered that a Patent....." should read as "1984 has been dismissed subject to amendment in the specification and ordered that a Patent....."

III

In the Gazette of India Part III Sec. 2 dated 7-6-86 in page 387 item 2 under heading "Opposition Proceedings" (Application No. 151747) the line 1984 has been treated as dismissed..... should read as "1984 has been treated as dismissed subject to amendment in the specification" and Patent has been ordered.....

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017

The dates shown in the crescent brackets are the dates claimed under Section 135 of the Patents Act, 1970.

The 13th April, 1987

292/Cal/87. Colt Industries Inc. Multi-point fuel injection apparatus.

The 14th April, 1987

293/Cal/87. Bholanath Sil. Sil Agriculture pump.

294/Cal/87. Beloit Corporation. A web forming apparatus.

295/Cal/87. Philadelphia Gear Corporation. Hand pump with automatic lock out. (Convention dated 26th May, 1983) Canada. [Divisional dated 6th December, 1983].

296/Cal/87. Hoerbiger Ventilwerke Aktiengesellschaft. Process for the adaptation of a compressor valve for varying operating conditions of the compressor and the compressor valve for carrying out the process.

The 16th April, 1987

297/Cal/87. Orissa Renewable Energy Development Agency. A novel device for stitching leaf plates.

298/Cal/87. Orissa Renewable energy development Agency. A novel device for cutting solid material such as bottle-nuts and similar materials.

299/Cal/87. Krone Aktiengesellschaft. Connector bank for cable wires, in particular of telephone cables.

300/Cal/87. RXS Schrumpftechnik-Garnituren GmbH. Wrap-around cable sleeve liner and production thereof.

The 20th April, 1987

301/Cal/87. Noel Carroll. Cyclone separator.

302/Cal/87. E. I. Du Pont De Nemours and Company. Low crystallinity polyester yarn produced at ultra high spinning speeds.

303/Cal/87. E. I. Du Pont De Nemours and Company. New uniform polymeric filaments.

304/Cal/87. Carrier Corporation. Compressor lubrication and noise reduction system.

305/Cal/87. Jean Frederic Melchior. Improvement in two-stroke internal combustion engines and process for operating said engines.

306/Cal/87. Chandra Brahmi. A device for filling solid material in containers.

307/Cal/87. Raj Narang and Sobha Ram Agarwal. Process for the beneficiation of dirty coal slurry from coal washeries and retrieving coal therefrom.

308/Cal/87. Ralph Haber Hoyeck. One letter alphabet (Ola) and the like. (Convention dated 21st April, 1986 and 23rd October, 1986) Canada.

The 21st April, 1987

309/Cal/87. Tea Research Association. Device for bulk storage of green tea leaves in fresh condition.

310/Cal/87. A. H. Robins Company, Incorporated. A process for the preparation of N-hydroxymethyl-3-phenoxy-1-azetidinecarboxamides. [Divisional dated 1st September, 1983]

311/Cal/83. Aluminium Pechiney. Process and apparatus for the decomposition of sodium aluminate liquor for the production of alumina.

312/Cal/87. Automatik Apparate-Maschinenbau GmbH. Method and apparatus for on-line spectrophotometric chemical analysis of material in moving process stream.

313/Cal/87. Siemens Aktiengesellschaft. Short-wave transmitters.

314/Cal/87. Breval S.A. Liquefied gas igniter. (Convention dated 6th June, 1986) Great Britain.

APPLICATION FOR THE PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, 3rd FLOOR, KAROL BAGH, NEW DELHI-5.

The 23rd March, 1987

246/Del/1987. Dr. Prakash Dwivedi, "Dyke power plant".

247/Del/1987. Dr. Prakash Dwivedi, "Power plant".

248/Del/1987. The B.F. Goodrich Company, "Free draining polymerization process vessels".

249/Del/1987. The B.F. Goodrich Company, "Low molecular weight copolymers of vinyl halide/vinyl acetate produced by aqueous polymerization".

250/Del/1987. Cominco Ltd., "Method for removal of monovalent ions from $ZnSO_4$ electrolyte by electrodialysis". (Convention date 22nd April, 1986, Canada).

251/Del/1987. Council of Scientific and Industrial Research, "Solvent extraction process for the separation of aromatics and non-aromatics from a feed stock of kerosene range petroleum fractions".

252/Del/1987. Council of Scientific and Industrial Research, "Crowbar-cum-semicircular spade".

The 24th March, 1987

253/Del/1987. Council of Scientific and Industrial Research, "An improved process for the production of high alumina cement clinkers and the like containing alumina ranging from 45 per cent to 80 per cent and castables based on them".

254/Del/1987. Council of Scientific and Industrial Research, "An improved process for the manufacture of Non-reactive low-melting fatty polyamides".

255/Del/87. Rakesh Sachdev and Mukesh Sachdev, "Improvements in or relating to gear position Indicator used in motor land vehicles".

256/Del/1987. The Lubrizol Corporation, "Grease and gear lubricant compositions comprising at least one metal-containing composition and at least one sulfurized organic compound".

257/Del/1987. Westinghouse Brake and Signal Company Limited, "Gating arrangement for apparatus for providing safe operation and/or failure to safety of an electronic circuit". (Convention date 29th July, 1983, U.K.). [Divisional date 24th July, 1984].

258/Del/1987. Council of Scientific and Industrial Research, "Improved method for the preparation of alkyd resin based water thinnable air drying paint".

259/Del/1987. Council of Scientific and Industrial Research, "An improved process for the selective hydroformylation of aliphatic and alicyclic olefins to corresponding aldehydes".

260/Del/1987. Council of Scientific and Industrial Research, "A process for the manufacturing heat-insulating refractory products by foaming technique".

The 25th March, 1987

261/Del/1987. Milburn Research Corporation, "Flow condition nutation valving apparatus and method of operation".

262/Del/1987. Sulzer Brothers Limited, "A device for coupling a shaft actuation of a loom to a heald frame".

The 26th March, 1987

263/Del/1987. AKT Consultants Pty. Limited, "Separator".

264/Del/1987. Laboratoire central D 'Hydraulique De France, "An artificial block, in particular for a shell protecting a sea or river construction".

265/Del/1987. European Atomic Energy Community (EURATOM), "A method and a device for the denitration of flue gases".

266/Del/1987. Balcke-Durr Aktiengesellschaft, "Method and apparatus for securing straight tubes between two tube sheets in a pressure tight manner".

267/Del/1987. Habasit AG, "Driving Belt".

The 27th March, 1987

268/Del/1987. Leningradskoe Vysshee Inzhenernoe Morskoe Uchilische Imeni Admirala S.O. Makarova, "Device for automatic balancing of grinding wheel".

269/Del/1987. The Lubrizol Corporation, "Coupled polyamine lubricant additives derived from hydrocarbyl polynitriles & Polyamines".

The 30th March, 1987

270/Del/1987. Bendix France, "Brake booster".

271/Del/1987. Rhone-Poulenc Agrochimie, "A method for controlling tobacco whitefly in cotton seedlings".

The 31st March, 1987

272/Del/1987. Fosroc International Limited, "Capsules of high alumina cement composition". (Convention date 10th April, 1986, U.K.).

273/Del/1987. Horsell Graphic Industries Limited, "Processing of exposed lithographic printing plates".

274/Del/1987. The Standard Oil Company, "Electrodeposited doped II-VI semiconductor films and devices incorporating such films".

275/Del/1987. Sanosil AG., "Process for preparing a Disinfectant".

276/Del/1987. Donald F. Almblad, "Plastic card/key combination and hinge structure".

APPLICATION FOR PATENTS FILING AT FOR PATENT OFFICE BRANCH 6J, WALLAJAH ROAD, MADRAS-600 002

The 30th March, 1987

227/Mas/87. KONE ELEVATOR GMBH., "Catch Device, for Instance for a Lift Cage or Counterweight".

The 31st March, 1987

228/Mas/87. MYDUR ANAND, "Continuous Vacuum pan for use in sugar industry".

229/Mas/87. ALLAM SUDHAKAR RAO, Better Safety Car.

230/Mas/87. ALLAM SUDHAKAR RAO, A Utensils Cleaning Apparatus.

231/Mas/87. CATALYTICA ASSOCIATES, Acid Catalyzed Process.

232/Mas/87. CIBA-GEIGY AG, Cleaning Composition for soft and hard contact lenses.

233/Mas/87. ENICHEM SINTESI S.P.A., "Liquid and Polymerizable Composition Suitable for the production of organic glasses Endowed with High Abrasion Strength".

The 1st April, 1987

234/Mas/87. MINNERSOTA MINING AND MANUFACTURING COMPANY, Refractory Fibers of Amorphous Alumina And Phosphorus Pentoxide.

235/Mas/87. DIXIELAND JAZZ INDUSTRIES, INC., Bright Metalized Fabric and Method of producing the same.

236/Mas/87. HONDA GIKEN KOGYO KABUSHIKI KAISHA, "Storage Device on Motor Cycle.

237/Mas/87. AMERICAN STANDARD INC, Vital Switch Control Circuit. (November 21st, 1986, Canada).

The 2nd April, 1987

- 238/Mas/87. OWENS-ILLINOIS, INC., Identification of a Molded Container with its mold of Origin.
- 239/Mas/87. OWENS-ILLINOIS, INC., Inspection of Container Finish.
- 240/Mas/87. ATOCHEM, A Process for the Preparation of a Vinyl Chloride Polymer Latex. A latex produced by such a Process and A process for the Preparation of a Vinyl Chloride Polymer using said Latex as a Seeding Product.
- 241/Mas/87. DOBSON PARK INDUSTRIES FLC. "Valves". (April 3rd, 1986, U.K.).

The 3rd April, 1987

- 242/Mas/87. KFLTRON RECTIFIERS LIMITED, A Trigger Module for Thyristor Applications.
- 243/Mas/87. UMESH KORDE, An Oscillating Water Column Absorbing Wavemaker.
- 244/Mas/87. UMESH KORDE, A Gyroscopic Power Take off Device for an Oscillating Water Column Wave Power Absorbing System.
- 245/Mas/87. G. VENKATRAMANA BHAT, "Frictionless Roller Bearing".
- 246/Mas/87. G. VENKATRAMANA BHAT, "Frictionless Taper Roller Bearing".
- 247/Mas/87. MOBIL OIL CORPORATION, Delayed Coking Process.
- 248/Mas/87. ORGAN-FASER TECHNOLOGY COMPANY N.V., "Process and Device for Working up Household, Industrial and other Similar Waste".
- 249/Mas/87. ORGAN-FASER TECHNOLOGY COMPANY N.V. Method for Producing Compacts from Moist Waste and Device for Carrying out the Method.

The 6th April, 1987

- 250/Mas/87. G. VENKATRAMANA BHAT, "Frictionless Thrust Ball Bearing".
- 251/Mas/87. G. VENKATRAMANA BHAT, "Frictionless Thrust Roller Bearing".
- 252/Mas/87. NEA TECHNOLOGIES, INC., Pulse Combustion Energy System.
- 253/Mas/87. DORRENBERG EDELSTAHL GMBH, Reactor Ladle.
- 254/Mas/87. DORRENBERG EDELSTAHL GMBH, "Casting Apparatus".
- 255/Mas/87. COLLINS MOTOR CORPORATION LIMITED, Reciprocatory Internal Combustion Engines. (April 4th, 1986, Great Britain).
- 256/Mas/87. DIPL-ING. ERNST KORTHAUS, Control Arrangement for Controlling a Hydraulic Drive for Driving a Piston Pump.

The 7th April, 1987

- 257/Mas/87. THE DOW CHEMICAL COMPANY, Semi-Permeable Membranes Consisting Predominantly of Polycarbonates Derived From Tetrahalobisphenols.
- 258/Mas/87. THE DOW CHEMICAL COMPANY, "Tetrabromo Bisphenon Based Polyester carbonate Membranes and Method of Using".
- 259/Mas/87. ZELLWEGER USTER LIMITED, "Yarn Testing Method and Apparatus".

- 260/Mas/87. INSTITUT FRANCAIS DU PETROLE, "A Device for Generating Acoustic Waves by means of a Falling mass striking a target element anchored in a Well".
- 261/Mas/87. TROTIGNON JEAN-PIERRE OF 13 LA ROSERAIE, "An extruder for continuously extruding a wall having a three-dimensional cellular structure, and a cellular wall provided thereby."

The 8th April, 1987

- 262/Mas/87. N. VENKATARAMANI, Magnetic Door Catch.
- 263/Mas/87. MITUTOYO MFG. CO. LIMITED, Capacitance-Type Transducer for measuring positions.
- 264/Mas/87. MITUTOYO MFG. CO. LIMITED, A Capacitance-Type Transducer for measuring positions.
- 265/Mas/87. MITUTOYO MFG. CO., LIMITED, Method and circuitry for detecting signals of capacitance type transducers for measuring positions.
- 266/Mas/87. HERCULES SECURITY FABRICATIONS LIMITED, Rotary Anti-Scaling Device. (April 10th, 1986, U.K.).
- 267/Mas/87. DYKKERTEKNIK v/FRIITZ VALDEMAR EILERSEN, "Stake Structure for Maritime Use".

The 9th April, 1987

- 268/Mas/87. MINNESOTA MINING AND MANUFACTURING COMPANY, "Optical Fiber Connector".

The 10th April, 1987

- 269/Mas/87. NETWORK SATELLITE PAGING PARTNERS LIMITED, "Scanning Receiver for Nationwide Radio Paging System".
- 270/Mas/87. NETWORK SATELLITE PAGING PARTNERS LIMITED, Nationwide Radio Paging System.
- 271/Mas/87. FOSFICO INTERNATIONAL LIMITED, Exothermic Compositions. (May 1st, 1986, U.K.).

159448. Ante dated to 21st July, 1980. (1236/Cnl/83)
159459. Ante dated to 17th September, 1979. (187/Dcl/83)
159465. Ante dated to 10th September, 1979. (225/Dcl/83)
159466. Ante dated to 10th September, 1979. (226/Dcl/83)
159470. Ante dated to 16th July, 1979. (307/Dcl/83)

COMPLETE SPECIFICATION ACCEPTED

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"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

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CLASS : 117-B 159434

Int. Cl. : E 05 b 15/00.

INTEGRAL PERIPHERAL LOCKING DEVICE FOR CLOSURES.

Applicant & Inventor : JOSEPH VANAGO, OF 1, RUE DES CHAUX, 69340 FRANCHEVILLE LE HAUT, FRANCE.

Application No. 1115/Cal/83 filed September 12, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

An integral peripheral locking device for closure means (1) particularly such as doors, shutters, safe doors comprising several longitudinal locking elements (5a, 5b) situated on the edges on the closure means and driven with a translational movement for penetrating into corresponding grooves (7a-10a) formed in the fixed frames, characterized by the fact that it comprises a plate of the same dimension as the closure means (1) sandwiched between the panels (2, 3) of said closure device and cut along a diagonal (4) so as to form two equal, opposite and substantially jointing triangles (5, 6) able to move away from each other under the action of an operating means (11), in the direction of the other diagonal of the opening (1) so as to engage by their sides (5a, 5b), respectively (6a, 6b) in the grooves (7a-10a) formed in the upper cross piece (7) and the uprights (9, 10) of the fixed frame and of the threshold (8), the translational movement of the triangles being guided by appropriate guide means; and that conversely the two triangles (5, 6) are able to draw closer to each other under the action of the operating means (11) for unlocking the closure device (1).

Compl. specn. 11 pages. Drg. 5 sheets

CLASS : 69-A 159435

Int. Cl. : H 01 h 73/00.

OPERATING APPARATUS OF CIRCUIT BREAKER.

Applicant : KABUSHIKI KAISHA MEIDENSHA OF 1-17, OHSAKI 2-CHOME, SHINAGAWA-KU, TOKYO, JAPAN.

Inventors : 1. TSUTOMU OOHARA, 2. YUJI YAMADA, 3. MINORU BARADA.

Application No. 1126/Cal/83 filed September 14, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

An operating apparatus of a circuit breaker, which comprises a toggle mechanism for disengaging a pair of contacts by retraction and for engaging the pair of the contacts by extension, throw-in means for extending the toggle mechanism, an interruption accelerating spring for retracting the toggle mechanism, a trip hook for holding the toggle mechanism in its retracted and extended positions, the one trip control electromagnet for releasing of the interruption accelerating spring, operated with electric power that is supplied by a control power supply independent of a load side circuit of a main power supply circuit, the other trip control electromagnet for releasing of the interruption accelerating spring, operated by over current flowing through the main power supply circuit, and an over current relay connected via a current transformer to the main power supply and providing both the trip control electromagnets with trip instruction signals.

Compl. specn. 24 pages.

Drg. 9 sheets.

CLASS : 28-C & F, 85-J

159436

Int. Cl. : F 23 d 1/02.

BURNER REGISTER ASSEMBLY.

Applicant : EAGLEAIR, INC., 1150 MAUCH CHUNK ROAD, BETHLEHEM, PENNSYLVANIA 18018, UNITED STATES OF AMERICA.

Inventors : 1. DONALD K. HAGAR, 2. LYLE D. GEIGER.

Application No. 1127/Cal/83 filed September 14, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims

A burner register assembly for use in a furnace having a fuel and primary air supply and a secondary air supply, comprising :

- (a) an air valve, adapted to communicate with the secondary air supply for controlling the admission of secondary air to said register assembly;
- (b) an air register assembly communicating with said air valve for imparting a vortex to the secondary air to create an air swirl whereby the primary air and fuel is entrained in said swirl and projected into said furnace.

Compl. specn. 18 pages.

Drg. 3 sheets

CLASS : 148-II

159437

Int. Cl. : G 03 g 15/00.

SHEET FEEDING APPARATUS.

Applicant : XEROX CORPORATION, OF XEROX SQUARE 020, ROCHESTER, NEW YORK 14644, U.S.A.

Inventor : ANIL GOPALRAO BHAGWAT.

Application No. 1155/Cal/83 filed September 21, 1983.

Convention date 21st September, 1982 (8226807) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Sheet feeding apparatus including a plurality of sheet holders for holding respectively a plurality of stacks of sheets, and a frictional feeder device in a fixed location for top-feeding sheets from any selected one of the stacks, characterised in that the sheet holders comprise tray assemblies which are carried one above another by a tray carriage and which are arranged for independent slideable withdrawal from the tray carriage in a first horizontal direction; that the tray carriage is mounted for vertical move-

ments; and that each, or each but the lowermost, of the tray assemblies comprises a sub-frame and a tray, the tray being slideably mounted on the sub-frame for movements thereover in a second direction parallel with the sheet feed direction and perpendicular to the first horizontal direction.

Compl. specn. 10 pages.

Drg. 4 sheets

CLASS : 24-A & F

159438

Int. Cl. : F16d 61/00.

BRAKING AND BRAKING ENERGY RETRIEVING, STORING AND REUTILISING DEVICE FOR CYCLES, MOTOR CYCLES, MOTOR SCOOTERS, ELECTRIC MOTORS AND THE LIKE.

Applicant & Inventor : BIMAN KUMAR PATHAK, 43/G, VIDYAYATAN SARANI, CALCUTTA-35, WEST BENGAL, INDIA.

Application No. 1165/Cal/83 filed September 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

A device for braking and braking energy retrieving, storing and reutilising for cycles, motor cycles, motor scooters, electric motors and the like comprising a hub in the shape of a brake drum mounted on a spindle shaft or axle of a wheel of a vehicle or a machine, the hub or brake drum being open on one side, a second drum closed by a cover located coaxially within the said hub or brake drum, at least one shaft rotatably mounted in the second drum, a friction wheel fixed on a shaft rotatably mounted in the cover of the second drum and adapted to be brought into contact with the inner cylindrical surface of the said hub or brake drum through an opening in the cylindrical wall of the second drum while braking, means for coupling the said shafts mounted in the second drum and in the cover of the second drum, a torsion spring surrounding the said first shaft in the second drum adapted to be twisted on rotation of the said first shaft during braking and to return the energy stored therein to the spindle shaft or axle of the vehicle or shaft of the machine.

Compl. specn. 11 pages.

Drg. 3 sheets

CLASS 40-F

159439

Int. Cl. : B01j 1/00.

A MONOMERIC VINYL CHLORIDE STRIPPING TOWER ADAPTED TO REMOVE MONOMERIC VINYL CHLORIDE FROM A SUSPENSION OR EMULSION OF A VINYL CHLORIDE RESIN.

Applicant : MITSUI TOATSU CHEMICALS, INCORPORATED, OF 2-5, KASUMIGASEKI, 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. HIROSHI OKADA, 2. HIDEYUKI ITAGAKI, 3. TAKEHIKO KANO, 4. SEIICHI MASUKO.

Application No. 1174/Cal/83 filed September 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A monomeric vinyl chloride stripping tower adapted to remove monomeric vinyl chloride from a suspension or emulsion of a vinyl chloride resin, characterized in that the stripping tower is a packed tower filled with at least one type of packing selected from the group consisting of Raschig rings, Berl saddles, Tellerette packing, pall rings, Lessing rings and interlock saddles, and that a condenser is provided in direct attachment to a top portion of the packed tower so that steam, which is discharged together with stripped monomeric vinyl chloride, is condensed in the condenser, separated from the monomeric vinyl chloride and then recirculated to the packed tower.

Compl. specn. 15 pages.

Drg. 1 sheet

CLASS : 23-G

159440

Int. Cl. : A24f 27/00.

RE-USABLE OR EVERLASTING MATCH.

Applicant and Inventor : DEVINDER RAJ BHASIN, 7, DEODHAR STREET, CALCUTTA-700019, WEST BENGAL, INDIA.

Application No. 1198/Cal/83 filed September 29, 1983.

Complete Specification left on 14th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

Re-usable or everlasting match comprising a container, an absorbent material impregnated with an inflammable liquid, such as herein described, a strip or piece of flint secured to the outside of the container and a striking stick of steel fixed to a holder which is a separate part of the said container and having a piece of wick provided in a hole therein, the striking stick with the piece of wick being normally housed within the container and embedded in the absorbent material, a hole is provided on the top of the container for receiving the striking stick and for supplying the inflammable liquid to the absorbent material. The strip or piece of flint is provided in a groove on the outside of the container.

Provisional specn. 3 pages.

Drg. Nil

Compl. specn. 9 pages.

Drg. 1 sheet

CLASS : 105-C & 199

159441

Int. Cl. : G01d 11/00.

PANEL INDICATOR.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, UNITED STATES OF AMERICA.

Inventors : 1. JAMES HENRY HIPPLE, 2. DON WILLIAM SMITH.

Application No. 1202/Cal/83 filed September 30, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A panel indicator comprising a housing, a first light transmitting member received within said housing and having an end portion protruding therefrom, said first light transmitting member having a conical depression formed in said protruding end portion

Compl. specn. 8 pages.

Drg. 1 sheet

CLASS : 32-F₁ & 2, 55-E₁, 60-X₁₁

159442

Int. Cl. : C07c 87/06.

PROCESS FOR PREPARING CYCLOBUTYLAMINE DERIVATIVES.

Applicant : THE BOOTS COMPANY PLC, OF 1 THANE ROAD WEST, NOTTINGHAM, ENGLAND.

Inventor : 1. BERNARD JOHN ARMITAGE, 2. JOHN ROSINDALE HOUSLEY, 3. JAMES EDWARD JEFFERY AND 4. DAVID NORMAN JOHNSTON.

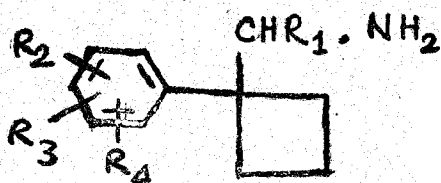
Application No. 1203/Cal/83 filed September 30, 1983.

Convention date 30th September, 1982 (8227901) U.K.

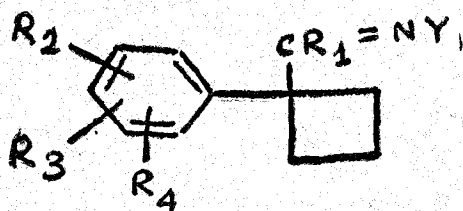
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A process for the preparation of compounds of formula I shown in the accompanying drawings,



in which R_1 is a heterocyclic ring containing one or more heteroatoms selected from N, O and S; in which R_2 , R_3 and R_4 which may be the same or different, are, H, halo trifluoromethyl, hydroxy, an alkyl group containing 1 to 3 carbon atoms, an alkoxy group containing 1 to 3 carbon atoms, an alkylthio group containing 1 to 3 carbon atoms, phenyl or R_2 and R_3 , together with the carbon atoms to which they are attached, form an optionally substituted second benzene ring; comprising the reduction of imines of formula II shown in the accompanying drawings,



in which Y represents a metal-containing moiety derived from an organometallic reagent.

Compl. specn. 20 pages.

Drg. 1 sheet

Class. 32-F2a, b ; 55-E4; 60X2.d 159443.

Int. Cl. C07 c 87/06

PROCESS FOR PREPARING CYCLOBUTYLALKYLAMINE DEPRIVATIVES.

Applicant : THE BOOTS COMPANY PLC, of 1, THANE ROAD WEST, NOTTINGHAM, ENGLAND.

Inventors : 1. ANTONIN KOZLIK 2. WILFRED HASE WELLS.

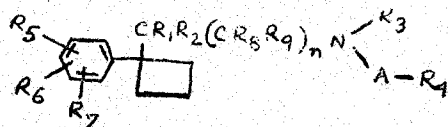
Application No. 1204/Ca/83 filed September 30, 1983.

Convention dated 30th September, 1982 (8227898 and 8227901) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 claims.

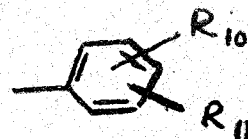
(1) A process for the preparation of compounds of formula I shown in the accompanying drawings,



in which $n=0$ or 1;

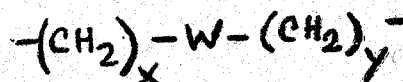
in which, when $n=0$, R_1 is H, a straight or branched chain alkyl group containing 1 to 6 carbon atoms, a cycloalkyl group

containing 3 to 7 carbon atoms, a cycloalkylmethyl group in which the cycloalkyl group contains 3 to 7 carbon atoms, an alkenyl group containing 3 to 6 carbon atoms, an alkynyl group containing 3 to 6 carbon atoms, a heterocyclic ring containing one or more heteroatoms selected from N, O and S or a group of formula II shown in the drawings,



in which, when $n=1$, R_1 is H or an alkyl group containing 1 to 3 carbon atoms;

in which R_2 is H or an alkyl group containing 1 to 3 carbon atoms; in which R_3 is H or a straight or branched chain alkyl group; in which A is a group of formula III shown in the drawings,



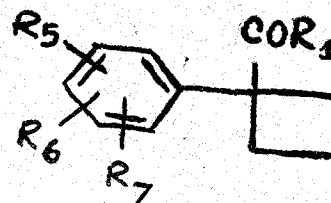
in which W is an oxygen atom or a group of formula $-S(O)m-$ in which m is 0, 1 or 2, a group of formula $-CR_{12}R_{13}-$, a cycloalkylidene group containing 3 to 6 carbon atoms or a cycloalkylene group containing 3 to 6 carbon atoms; x is 0 or an integer from 1 to 5; y is 0 or an integer from 1 to 5 (with the proviso that when W is an oxygen atom or a group of formula $S(O)m$, x and y are both integers from 1 to 5); R_{12} and R_{13} which are the same or different are H, an alkyl group containing 1 to 3 carbon atoms, hydroxy, methoxy or benzyl;

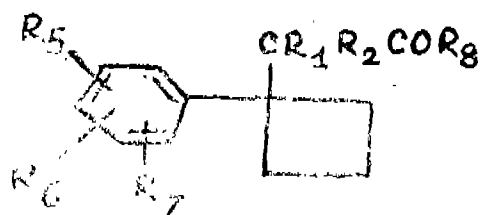
in which R_4 is a carbocyclic ring, a heterocyclic ring containing one or more heteroatoms selected from N, O and S, a cyano group, a carbamoyl group of formula $-CONR_{14}R_{15}$ in which R_{14} and R_{15} which are the same or different are H, an alkyl group containing 1 to 3 carbon atoms or R_{14} and R_{15} together with the nitrogen to which they are attached form a heterocyclic ring, an alkoxy carbonyl group of formula $-COOR_{16}$ in which R_{16} is an alkyl group containing 1 to 3 carbon atoms, an amido group of formula $-N(R_{17})COR_{18}$ in which R_{17} and R_{18} , which may be the same or different, are alkyl groups containing 1 to 4 carbon atoms or R_{17} and R_{18} together with the nitrogen atom and carbonyl group to which they are attached form a ring, an acyloxy group of formula $-OCOR_{19}$ in which R_{19} is an alkyl group containing 1 to 3 carbon atoms, a hydroxy group, a thiol group, or a group of formula $-OR_{20}$, $-SR_{20}$, $-SRO_{20}$ or SO_2R_{20} in which R_{20} is a straight or branched chain alkyl group containing 1 to 4 carbon atoms or an optionally substituted phenyl group; in which R_5 , R_6 and R_7 which are the same or different, are H, halo, trifluoromethyl, hydroxy, an alkyl group, an alkoxy or alkylthio group, phenyl or R_5 and R_6 , together with the carbon atoms to which they are attached, form an optionally substituted second benzene ring;

in which R_8 and R_9 , which are the same or different, are H or an alkyl group containing 1 to 3 carbon atoms;

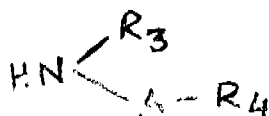
in which R_{10} and R_{11} , which are the same or different, are H, halo, an alkyl group containing 1 to 3 carbon atoms or an alkoxy group containing 1 to 3 carbon atoms;

comprising the reductive amination of ketones or aldehydes of formula IV or V shown in the drawings





by reaction of the ketones or aldehydes with an amine of formula VI shown in the drawings.



Compl. specn. 49 pages.

Drg. 1 sheet

CLASS : 129G & 151 E

159444

Int. Cl. : B 23 d 1/26, 21/04.

METHOD AND DEVICE FOR CUTTING A TUBE.

Applicant : PONT-A-MOUSSON S.A., 91, AVENUE DE LA LIBERATION, 54000 NANCY, FRANCE.

Inventor : CLAUDE FUMINIER.

Application No. 1511/Cal/83 filed December 9, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A method for cutting a horizontally lying tube made of a rigid material and of a diameter greater than a minimum diameter, comprising the steps of :

Supporting a lower half of said tube (T) on carrier rollers (2, 6) accommodating an end of said tube to be cut, supporting a lower half of another end of said tube to be cut on rollers (19);

maintaining said tube translationally fixed along an axis (X—X) of said tube;

pressing at least one pressing roller against an inside wall of the tube in the vicinity of one of said carrier rollers, an axis of each said pressing roller being parallel to said axis of said tube, each said pressing roller being adapted to be introduced into and withdrawn from the interior of said tube during and after the cutting operation respectively;

rotating at least one of said carrier rollers for rotating said tube;

moving a cutting tool (16) toward a center of said tube and along a radius of said tube, said cutting tool being coupled to one of said carrier rollers along a radial plane of said tube; and withdrawing said pressing roller from said tube after the completion of the cutting of the tube.

Compl. specn. 21 pages.

Drg. 7 sheets

CLASS : 87-A

159445

Int. Cl. : A-63b 1/00, 25/00.

A LEG LIFT EXERCISE DEVICE.

Applicant : DIVERSIFIED PRODUCTS CORPORATION, OF 309 WILLIAMSON AVENUE, POST OFFICE BOX 100, OPELIKA, ALABAMA 36802, U.S.A.

Inventor : IRA. J. SILBERMAN.

Application No. 1194/Cal/83 filed September 29, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A leg lift exercise device adapted to be fastened to the frame members of an exercise bench, comprising :

an L-shaped member having a first arm and a second arm substantially perpendicular to said first arm;

a first ankle engaging member fixed to said first arm and a second ankle engaging member fixed to said second arm;

a weight support attached to said second arm;

characterized by :

an adjustable and removable knee support; and

mounting means adapted to be fastened to the frame members of an exercise bench for pivotally supporting said L-shaped member and independently adjustably and removably supporting said knee support.

Compl. specn. 9 pages.

Drg. 2 sheets

CLASS : 63-I

159446

Int. Cl. : H 02 K 29/00.

A STATIC VAR GENERATOR HAVING A THYRISTOR CIRCUIT ARRANGEMENT PROVIDING REDUCED LOSSES.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : LASZLO GYUGYI.

Application No. 1230/Cal/83 filed October 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A static VAR generator comprising a capacitance means disposed for connection into an AC network; a monitoring means for monitoring the capacitive requirements of said AC network, a control means having anti-parallel connected thyristors for connection of said capacitance means into the AC network in response to the capacitive requirements of the AC network, and an auxiliary control means having antiparallel thyristors to connect a zinc oxide varistor means for discharging the capacitance means when the AC network is subject to high transient voltages.

Compl. specn. 12 pages.

Drgs. 4 sheets

CLASS : 23-H, 166-B

159447

Int. Cl. : B 65 j 1/02.

SHIPPING PALLET AND CONTAINER.

Applicant : BIGELOW-SANFORD, INC. OF POST OFFICE BOX 3089, GREENVILLE, SOUTH CAROLINA, UNITED STATE OF AMERICA.

Inventor : JOSEPH HENRY WIND.

Application No. 1235/Cal/83 filed October 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A shipping pallet of unitary construction for use with another substantially identical pallet so as to serve as a bottom or top wall of a shipping container for transporting and storing a load, said shipping pallet comprising a base and a plurality of spaced-apart foot means projecting from a common side of said base, a first sleeve receiving groove provided adjacent the periphery of the pallet and on the side thereof opposite from said foot means, and a second sleeve receiving groove provided on the same side of the pallet as said first sleeve receiving groove and positioned so as not to extend outwardly beyond the confines of said first sleeve receiving groove and being so constructed and arranged as to be of different configuration than said first sleeve receiving groove so as to receive a sleeve therein of different cross-sectional configuration than that sleeve adapted to be received in said first sleeve receiving groove, wherein said first and second sleeve receiving grooves have coinciding linear portions and are concentrically arranged relative to each other and relative to the pallet and each encompasses at least a major portion of the pallet, and further wherein the grooves are of different overall size and geometric shape from each other.

Compl. specn. 17 pages.

Drgs. 7 sheets.

CLASS : 119-F,

159448

Int. Cl. : B 65 h 19/00.

IMPROVED METHOD AND APPARATUS FOR MANUFACTURING FABRICS BY WEAVING.

Applicant : LFFSONA CORPORATION, AT 333 STRAWBERRY FIELD ROAD, WARWICK, COUNTY OF KENT, RHODE ISLAND, U.S.A.

Inventor : 1. CHARLES WILLIAM BROUWER, 2. H. GARY OSBON, 3. KARL WILLY WUEGER.

Application No. 1236/Cal/83 filed October 5, 1983.

Division of application No. 828/Cal/80 dated 21st July 1980.

Appropriate office for opposition proceedings (Rule 4, Patents rules, 1972) Patent Office, Calcutta.

59 Claims

In an improved method of manufacturing fabrics by weaving in which a finite length of a weft strand is periodically delivered by periodically operable weft insertion means across the weaving shed for weaving with warp yarns into a fabric, the improvement which comprises the steps of :

- (a) continuously advancing said weft strand from a supply source therefor for winding onto a first winding surface;
- (b) continuously advancing said strand from said first winding surface toward one end of a second winding surface for rewinding of the strand on the second surface;

2—77 GI/87

(c) periodically operating said weft insertion means to withdraw during each such period the strand from an opposite end of said second winding surface while continuing advance of said strand to said first winding surface and from said first winding surface and from said first surface toward said one end of said second surface; and

(d) when said finite length has been withdrawn from said opposite end of said second winding surface by said weft insertion means, halting further withdrawal of said strand therefrom until the next subsequent period.

Compl. specn. 151 pages.

Drgs. 17 sheets.

CLASS : 63-C

159449

Int. Cl. : H 01 r 39/04.

COMMULATOR FOR ELECTRICAL MACHINE.

Applicant : SIEMENS AKTIENGESellschaft, OF BERLIN AND MUNICH, WEST GERMANY.

Inventor : HERBERT STRALKA.

Application No. 1275/Cal/83 filed October 13, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A commutator for an electrical machine having a plurality of connecting wires secured to each commutator segment at respective securement point which are spaced from each other, and comprising :

A slot formed in each commutator segment; and

a first connecting wire and a second connecting wire laid in each slot and secured in position by respective peened-over connectors which are axially spaced from each other with respect to the axis of the commutator.

Compl. specn. 7 pages.

Drg. 1 sheet

CLASS : 126-C

159450

Int. Cl. : G 01 r 19/06.

ELECTRONIC METER FOR MEASURING ACTIVE AND REACTIVE ENERGIES IN A THREE-PHASE NETWORK.

Applicant : ENERTEC, OF 12, PLACE DES ETATS-UNIS, B.P. 620, 92542 MONTROUGE, FRANCE.

Inventors : 1. ALAIN CHIFFERT, 2. WILLIAM GALULA, 3. MICHEL ROUSSEAU.

Application No. 1291/Cal/83 filed October 20, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

An electronic meter for measuring active and reactive energies on a three-phase network, comprising a plurality of current and voltage converters connected to a calculating device, the meter being characterised in that it comprises :

a plurality of single-phase energy sensors each having a first input connected to a current converter and a second input connected to a voltage converter and providing energy pulses of which the number represents the energy detected by the single-phase sensor, and

in that the calculating device is a microprocessor and comprises accumulating means controlled by the pulses supplied by the energy sensors for providing the active and reactive power measurements sought.

Compl. specn. 26 pages.

Digs. 11 sheets

CLASS : 124

159451

Int. Cl. : C 06 f—3/06.

PROCESS FOR THE MANUFACTURE OF HUMIDITY RESISTANT MATCHES.

Applicant : BRYANT & MAY LIMITED, OF P.O. BOX 57, TOTTERIDGE ROAD, HIGH WYCOMBE, BUCKINGHAMSHIRE HP 13 6EJ, ENGLAND.

Inventors : 1. ALBERT FRANK LANHAM, 2. MICHAEL GRAHAM CAREY COX, 3. RICHARD HENRY ETHERIDGE.

Application No. 1296/Cal/83 filed October, 22, 1983.

Convention date 22nd October, 1982 (82 30241) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A process for the manufacture of humidity resistant matches which comprises forming a bulb of an aqueous match head composition on the end of a match splint, and drying the bulb to form the match head, said composition comprising a mixture of potassium chlorate, filler (single or multi-component), combustible material and a water-soluble or water-dispersible binder therefor, characterised in that the aqueous match head composition comprises, as said binder, a water-soluble or water-dispersible salt of a polyacrylic or substituted polyacrylic acid with ammonia or a volatile amine and as said filler, or as a component thereof, zinc oxide, and wherein the molar ratio of the carboxylic acid groups (in free acid or salt form) in said polyacrylic or substituted polyacrylic acid to said zinc oxide is in the range 1.7 : 1 to 2.5 : 1.

Compl. specn. 12 pages.

Drg. 1 sheet.

CLASS : 187-E4

159452

Int. Cl. : H 04 m 1/04.

TEST EQUIPMENT FOR MANUALLY TESTING AN OPTICAL GLASS-FIBRE SUBSCRIBER LINE WHICH IS OPERATED WITH BIDIRECTIONAL WAVELENGTH MULTIPLEX.

Applicant : KRONE GMBH. GOERZALLER 311, 1000 BERLIN 37, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. DR. JENS WEBER.

Application No. 1310/Cal/83 filed October 25, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Test equipment for manually testing an optical glass-fibre subscriber line, which is operated with bidirectional wavelength multiplex including a high frequency transmitter (with a parallel/serial converter for a pulse code multiplex system), the subscriber line comprising in serial :

an electro-optical converter (laser transmitter);

an opto-electrical converter; and

a high frequency receiver (serial/parallel-converter) characterised in that the laser transmitter (1) by means of a key switch (2) through an interlocking device which effects the operation of the laser transmitter (1) is switched on only during a time which is free from services and a permanent-synch information being supplied by a device in a high frequency transmitter (7) sent out is detected at the remote end of the subscriber line after opto-electrical conversion [in the converter (10)] by the high frequency receiver (11) and is outputted as a logic signal ("DSE") and transmitted in reverse direction within a channel of a multi-channel system.

Compl. specn. 10 pages.

Drg. 3 sheets

CLASS : 129-G & Q

159453

Int. Cl. : B 23 k 5/00.

TORCH APPARATUS FOR FLAME SPRAYING METAL POWDER.

Applicant : EUTECTIC CORPORATION, OF 40-40 172ND STREET, FLUSHING, NEW YORK 11358, UNITED STATES OF AMERICA.

Inventor : 1. ANTHONY JOSEPH ROTOLICO.

Application No. 1370/Cal/83 filed November 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A torch apparatus for flame spraying metal powder comprising a torch having a nozzle and a gas mixing chamber and means for feeding fuel gas and oxygen to said mixing chamber in a preselected proportion and out through said nozzle, said means comprising :

fuel gas valve means with an orifice restrictor for feeding said gas to a mixing chamber, the orifice size being selected to provide, in the choked state, a flow of fuel gas therethrough under a selected choke pressure;

and oxygen valve means with an orifice restrictor of size selected to provided in the choked state of flow of oxygen therethrough under a selected choke pressure;

whereby when fuel gas and oxygen, respectively, are passed through said orifice restrictors at an oxygen/fuel-gas flow ratio and pressures corresponding to optimum BTU capacity for a particular flame characteristic calculated in terms of BTU's per hour with the pressures maintained in excess of minimum choking pressure for each of said restrictors, said flame characteristic being one selected from the group consisting of (a) a slightly oxidizing flame, (b) a neutral flame and (c) a slightly reducing flame;

the excess choking pressure of the gas flow through each of the orifice restrictors is maintained during thermal operation of said flame spray system in accordance with the flame conditions observed during operation of said flame spray system without substantially changing the predetermined flame chemistry of said flame spray system during operation thereof.

Compl. specn. 15 pages.

Drg. 1 sheet

CLASS : 40-B.

159454

Int. Cl. : B 01 j 11/52.

PROCESS FOR PREPARING A CATALYST FOR USE IN PREPARING MONOALKOXY PHENOLS FROM DIHYDRIC PHENOLS BY PARTIAL ETHERIFICATION.

Applicant : RECKITT & COLMAN OF INDIA LIMITED OF 41, CHOWRINGHEE ROAD, CALCUTTA-700 071, STATE OF WEST BENGAL, INDIA.

Inventors : 1. DR. SURENDRA PRASAD BHATNAGAR, 2. DR. AJAI PRAKASH, 3. DR. SATISH CHANDRA MISRA, 4. MARUTI SHANTARAM RAIKAR.

Application No. 1419/Cal/83 filed November 18, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A process for preparing a catalyst for use in preparing monoalkoxy phenols from dihydric phenols by partial etherification which comprises :—

(i) mixing aluminium hydroxide and boric acid in the ratio of 1 : 1 to 1 : 60 by weight;

- (ii) adding to the above mixture of (i), 2 to 20% by weight of diatomaceous earth having particle size of 2—25 microns and which is calcinated;
- (iii) adding to the mixed product of step (i) and (ii) water in an amount of 50 to 300% by weight;
- (iv) treating the obtained product of step (iii) with phosphoric acid (61.57%) P_2O_5 content in a ratio of 1 to 60 by weight to obtain the said catalyst.

Compl. Specn. 8 pages.

Drg. Nil.

CLASS : 187 ($E_3 + E_4$).

159455

Int. Cl. : HO1m 1R00, HO1r 1/00 & GO8b 3/00.

"ELECTRO-ACOUSTIC CALLING DEVICES".

Applicant : THE GENERAL ELECTRIC COMPANY, p.l.c., a British Company, of 1 Stanhope Gate, London W1A 1EH, England.

Inventor : KEITH JOHN VICKERS AND ALLAN GEORGE CARR.

Application for Patent No. 90/Del/1983 filed on 14th February, 1983.

Convention date on 26th February, 1982/05748/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

An electro-acoustic calling device comprising an electro-acoustic transducer responsive to electric signals applied to inputs thereof to provide an audible output signal, and a housing surrounding said transducer, said housing has a planar member having a first aperture through which sound waves may substantially unimpeded, wherein said housing has a second planar member moveably mounted with respect to the first planar member, said second planar member having a plurality of apertures which are smaller than that said first aperture and which are arranged in a predetermined pattern, said planar members are positioned on the housing to provide that movement of the planar members with respect to each other causes a variation in alignment of the respective apertures which causes a variation in the attenuation of the output of the transducer, and the size and pattern of said apertures provides a logarithmic relationship between the attenuation of the output and the position of the planar members with respect to each other which provides an apparent linear relationship between the distance through which one of the members is moved and the change in sound intensity of the device is heard by a human ear.

Compl. Specn. 8 pages.

Drgs. 4 sheets.

CLASS : 32f₃ (c) IX (1).

159456

Int. Cl. : CO7c-31/20.

PROCESS FOR RECOVERING A GLYCOL FROM AN ELECTROLYTE-CONTAINING AQUEOUS SOLUTION.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., of Carrel van Bulaandlaan 30, 2596 HR THE HAGUE, the Netherlands, a Company organized under the laws of the Netherlands, a Research Company.

Inventor(s) : 1. Andread Bernardus Van Aken, 2. Bernardus Jozef Van Dipen, 3. Jeffrey Bernard Pedley.

Application for Patent No. 127/Del/1983 filed on 2nd March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A process for recovering a glycol having two OH-groups from an aqueous glycol electrolyte containing solution such as herein described, which process comprises introducing said aqueous glycol solution as feed into the depletion compartment of an electrodialytic cell, introducing an electrolyte solution into an anode compartment and a cathode compartment of said electrodialytic cell, said cathode compartment being separated from said depletion compartment by a cation selective membrane, said depletion compartment being separated from the anode compartment by an anion selective membrane, passing a current through said electrodialytic cell at a direct voltage, thus raising the molar ratio of glycol to electrolyte in said aqueous glycol solution in said depletion compartment, and subsequently separating glycol from said aqueous glycol solution.

Compl. Specn. 12 pages.

CLASS : 104 K [XII(1)]

159457.

Int. Class : C 08 c 3/00.

IMPROVED PROCESS FOR THE SEPARATION OF RUBBER FROM GUAYULE RESIN/RUBBER MIXTURE

Applicant(s) : THE FIRESTONE TYRE & RUBBER COMPANY, OF 1200 FIRESTONE PARKWAY, AKRON, STATE OF OHIO, 44317, UNITED STATES OF AMERICA, MANUFACTURERS, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA.

Inventor(s) : RICHARD GUTIERREZ, EDWARD LEE KAY & DAVID JOHN SERBIN.

Application for Patent No. 144/DEL/1983 filed on 8th March 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

An improved process for separating rubber from guayule resin/rubber mixtures which comprises (a) forming an aqueous suspension of spherical resin/rubber particles, at least 90% of which are 0.8—13 mm. in diameter by first forming a solution of resin/rubber mixture in an organic solvent of the kind such as herein described, and removing the organic solvent through vaporization from the said solution of resin/rubber mixture, said removal occurring in the presence of water containing at least one surfactant such as herein described for aqueous systems; (b) extractively deresinating the particles with oxygenated resin solvent of the kind such as herein described; and (c) recovering the deresinated rubber.

(Complete Specifications 19 Pages).

CLASS : 32F₂(b) & 55D₃

159458.

Int. Class : Co7d 55/00.

A PROCESS FOR THE PREPARATION OF NEW TRIAZINE COMPOUNDS.

Applicant : VELSICOL CHEMICAL CORPORATION, OR 341 EAST CHIO STREET, CHICAGO, ILLINOIS 60611 U.S.A., A CORPORATION OF THE STATE OF DELAWARE.

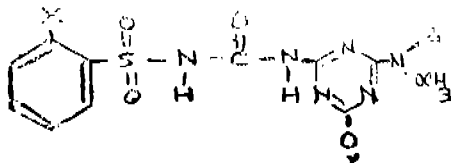
Inventors : LEONARD JOSEPH STACH & JAMES CHRISTOPHER POMES.

Application for Patent No. 161/DEL/83 filed on 10th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patents Office Branch, New Delhi-110 005.

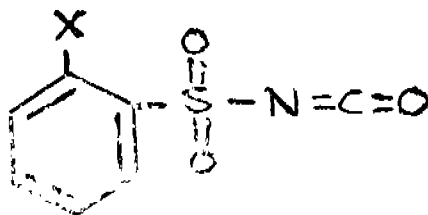
4 Claims

A process for the preparation of new triazine compounds of the formula I



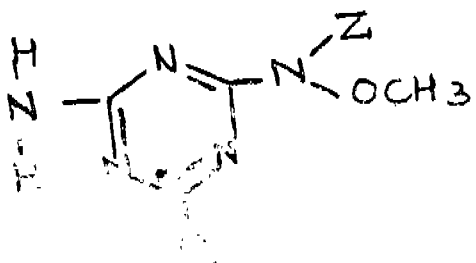
Formula I

of the accompanying drawings wherein X is bromo, chloro or bitro; Y and Z are lower alkyl, which comprises reacting a compound of formula II



Formula II

of the drawings with an equipment amount of amine of the formula III



Formula III

wherein X, Y and Z have the meaning defined above.

(Complete Specifications 22 Pages). Drawing 1 Sheet.

CLASS : 32 F 2(b) [IX(1)]; 55 E 4 [XIX(1)] 159459.

Int. Class : A 61 k 27/10; C 07 d 49/08.

IMPROVEMENT IN OR RELATING TO THE MANUFACTURE OF OXYPHENEBUTAZONE, [1-(p-HYDROXYPHENYL)-2-PHENYL-4-BUTYL-3, 5-DIOXOPYRAZOLIDINE] FROM P-BENZYL-OXYAZOBENZENE AND N-BUTYL MALONIC ESTER.

Applicant(s) : PYARE PARIMOO, OF 42-BALGARDEN, SRINAGAR (KASHMIR), INDIA, AN INDIAN NATIONAL.

Inventor(s) : PYARE PARIMOO.

Application for Patent No. 187/DEL/1983 filed on 23rd March 1983. Divisional Application No. 652/DEL/1979 filed on 17th September 1979.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

An improved process for the preparation of oxyphenbutazone [1-(p-hydroxyphenyl)-2-phenyl-4-butyl-3, 5-dioxopyrazolidine] which comprises reducing p-benzyloxyazobenzene

with zinc dust in alcoholic sodium hydroxide and nitrogen atmosphere to form p-benzyloxy hydrazobenzene followed by reacting the said p-benzyloxyhydrazobenzene with n-butyl malonic ester in presence of sodium ethoxide solution at a temperature not exceeding 145°C with stirring and distillation of ethanol to form 1-(p-benzyloxyphenyl)-2-phenyl-4-butyl-3, 5-dioxypyrazolidine as an intermediate product which is debenzylated by methods known per se to oxyphenbutazone.

(Complete Specifications 6 Pages).

CLASS : 103

159460.

Int. Class : C23f 11/00, 13/00, 15/00.

A PROCESS FOR TREATING FERROUS METAL PARTS CONTAINING FREE OR COMBINED SULPHUR IN THEIR SURFACE LAYERS.

Applicant : CENTRE STEPHANOIS DE RECHERCHES MECANIKES HYDROMECANIQUE ET FROTTEMENT, A FRESH COMPANY OF RUE BENOIT FOURNEYRON, ZONE INDUSTRIELLE SUD, 42160 ANDREZIEUX-BOUTHEON, FRANCE.

Inventors : BERNARD GRELLLET, JEAN-PIERRE EMANUEL AND BERNARD SIPP.

Application for Patent No. 258/Del/1983 filed on 19th April, 1983.

Appropriate office for opposition proceeding (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

8 Claims

A process for treating ferrous metal parts containing free or combined sulphur in their surface layers to improve the corrosion resistance thereof, wherein the parts are immersed in an oxidising bath of molten salts comprising, by weight, 25% to 35% of alkali metal nitrates and less than 15% of alkali metal carbonates, the remainder being alkali metal hydroxides and the alkali metals being sodium and potassium, comprising adding to the oxidising bath from 0.5% to 15% by weight of oxygen containing salts of alkali metals, the normal oxidation-reduction potential of which is less than or equal to -1.0 volt relative to the hydrogen reference electrode; blowing an oxygen-containing gas of the kind such as herein described into the bath at a sufficient rate for the bath to be saturated with dissolved oxygen; immersing the parts in the bath for a sufficient time for the composition of their surface layer to be stabilised; and maintaining below 3% by weight the proportion of insoluble particles in the bath.

(Complete Specification 15 Pages). Drawing 1 sheet.

CLASS : 98 I

159461.

Int. Class : F24j 3/02.

AN IMPROVED PORTABLE SOLAR COOKER.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : KALHAN KUMAR SANYAL, SUSHIL KUMAR MUNSHI, DR. SUSHIL KUMAR BASU, PRASUN KUMAR CHAKRABARTY.

Application for Patent No. 293/DEL/83 filed on 9th May, 1983.

Complete specification left on 22nd May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

An improved domestic portable solar cooker comprising an adjustable holder for holding a cooking unit, a concentrator adjustably mounted to the holder through an axis rod, the con-

centrator comprising plurality of curved frames covered with metalised plastic reflector, the frames are divided into two halves each half connected flexibly by a hinge and the hinge is connected to the axis rod by a straight rod, through a slider, the forward movement of the slider on the axis rod permit collapsing of the reflector frames, a supporting frame connected to the axis rod having legs for supporting the cover on the surface and a central piece rotatable on its own axis providing horizontal movement of the reflector, and connected to a tilting mechanism for facilitating the vertical movement of the reflector.

(Provisional specification 3 pages).

(Complete specification 7 pages). Drawing 3 sheets.

CLASS : 70 A, B. 193 159462.

Int. Class : B 01 k 3/00.

ELECTROLYTIC CELL CONTAINING GASKET HAVING PROJECTIONS AND/OR RECESSES.

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC, OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND, A BRITISH COMPANY.

Inventor : THOMAS WESLEY BOULTON AND BRIAN JOHN DARWENT.

Application for Patent No. 288/DEL/83 filed on 7th May, 1983.

Convention date on 19-5-82/8214532/(U.K.).

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

An electrolytic cell comprising at least one anode and at least one cathode, a separator positioned between each said anode and adjacent cathode and dividing the cell into separate anode and cathode compartments, and one or more gaskets of an electrically insulating material, characterised in that the gasket comprises a plurality of projections and/or recesses on or in a surface thereof which co-operate with corresponding recesses and/or projections in or on a surface of said anode or said cathode or of said gasket adjacent thereto.

(Complete specification 18 Pages). Drawing 3 Sheets.

CLASS : 63 G & I 159463.

Int. Class : H02K 51/00.

GEARED MOTOR.

Applicant : DLF UNIVERSAL LIMITED, OF 21-22, NARINDRA PLACE, PARLIAMENT STREET, NEW DELHI-110 001, INDIAN, AN INDIAN COMPANY.

Inventors : MADUR SRIVASA RAJGHVAN VARADA RAGAN AND RAVI PRASAD ATMA RAMGOAL.

Application for Patent No. 102/DEL/83 filed on 17th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A geared motor comprising a motor having an output shaft a load adapted to be connected to one end of said output shaft, a helical gear cut on the opposite end of said output shaft and in mating relationship with a helical gear mounted on a rotatable shaft, said rotatable shaft having a first spur gear mounted thereon for driving a gear train of spur gears, said spur gears of the gear train being mounted on its own auxiliary shafts, each of said auxiliary shaft having a single or two spur gears mounted thereon, said gear train having a step down ratio of 280 : 3 to 280 : 16, a gear casing having means rotatably supporting said shafts.

(Complete specification 8 pages). Drawing 1 sheet.

CLASS : 98 I

159464.

Int. Class : F24j 3/02.

TRACKING DEVICE FOR A SOLAR COLLECTOR.

Applicant : CREUSOT-LOIRE, A FRENCH COMPANY, OF 42, RUE D'ANJOU, 75008 PARIS, FRANCE.

Inventors : GERARD SEVELINGE & JEAN CLAUDE PIDO.

Application for Patent No. 219/Del/1983 filed on 5th April, 1983.

Appropriate office for opposition proceeding (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

7 Claims

Tracking device for a solar collector comprising a concave mirror fixed on a support which is rotationally mobile about an axis of rotation and a pointing device consisting of a screw-forming component mounted along the axis of rotation, and of a nut-forming component which is mobile only lengthwise, functions together with the said screw-forming component and is activated by a double-acting jack, characterised in that the screw-forming component (5), integral with the rotationally mobile support of the mirror, is in the form of a tube the external cylindrical face of which comprises helical grooves (6) of the screw-forming component and the internal bore (7) of which constitutes the working cylinder of the double-acting, hydraulically controlled jack and in that a piston (8) capable of sliding directly inside the bore (7) of the tube forming the said screw-forming component (5), is connected by rigid components (9-12-13-14) to the nut-forming component (15).

(Complete specification 9 pages). Drawing 1 sheet.

CLASS : 5 D [I(1)]; 173 B [XXIX (2)] 159465.

Int. Class : B 05 b 5/00.

CONTAINERS FOR USE IN ELECTROSTATIC SPRAYING OF LIQUIDS.

Applicant(s) : IMPERIAL CHEMICAL INDUSTRIES PLC., A BRITISH COMPANY OF IMPERIAL CHEMICAL HOUSE MILLBANK, LONDON SW1P 3JF, ENGLAND.

Inventor(s) RONALD ALAN COFFEE.

Application for Patent No. 225/DEL/1983 filed on 6th April 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

A container for a liquid to be electrostatically sprayed, suitable for mounting on a holder carrying an incomplete electrical circuit including a high voltage generator, the container having :

an orifice for delivering liquid;

mounting means for locating the container on the holder; an electrical connection from the container to one or more contacts on the mounting means so placed that when the container is located on the holder by the mounting means, the contact or contacts can complete the electrical circuit on the holder;

and a seal for closing the orifice prior to location on the holder, which is adapted to be opened by means located on the holder.

(Complete specifications 16 pages). Drawings 5 sheets.

CLASS : 5 D [I(1)]; 173 B [XXIX (2)].

159466.

Int. Class : B 05 b 5/00.

HOLDERS FOR CONTAINERS FOR USE IN ELECTRO-STATIC SPRAYING OF LIQUIDS.

Applicant(s) : IMPERIAL CHEMICAL INDUSTRIES PLC., A BRITISH COMPANY OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND.

Inventor(s) : RONALD ALAN COFFEE.

Application for Patent No. 226/DEL/1983 filed on 6th April 1983. Convention Application No. 38180/78 filed on 26-9-1978 (United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.
7 Claims

A holder for a container for a liquid to be electrostatically sprayed which comprises a body carrying a high voltage generator, and having a mounting for receiving and supporting the container, the mounting being provided with one or more electrical contacts for connecting electrical contacts on the container with one or more terminals of the high voltage generator.

(Complete specifications 15 Pages). Drawings 5 sheets.

CLASS : 32F₃(b) & 55 D

159467.

Int. Class : C 07 d-85/00.

A PROCESS FOR THE PREPARATION OF UREA COMPOUNDS.

Applicant : VELSICOL CHEMICAL CORPORATION, OF 341 EAST OHIO STREET, CHICAGO, ILLINOIS 60611, UNITED STATES OF AMERICA, A CORPORATION OF THE STATE OF DELAWARE.

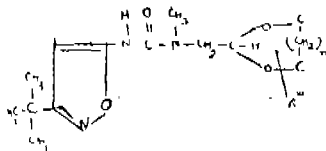
Inventor : JOHN KRENZER.

Application for Patent No. 249/Del/83 filed on 15th April, 1983.

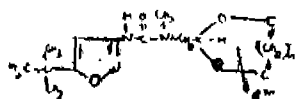
Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patents Office Branch, New Delhi-110 005.

4 Claims

A process for the preparation of urea compounds of formulae I and II.

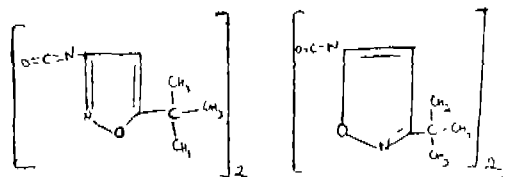


I

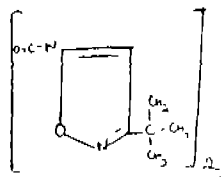


II

which comprises reacting isoxazol-isocyanate dimer of the formulae IIIA or III.

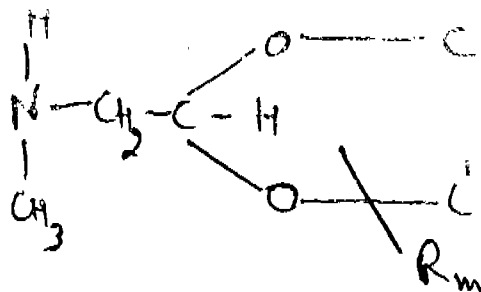


III-A



III

with two molar amounts of an amine of the formula IV.



IV

wherein R is lower alkyl; n is 0 to 1, and m is 0 or an integer from 1 to 6 in an aromatic solvent.

(Complete specification 18 pages). Drawing 2 Sheets.

CLASS : 33 D&H.

159468.

Int. Class : B 22 d 11/00.

PROCESS AND APPARATUS FOR THE CONTINUOUS CASTING OF ALLOYED COPPER ROD.

Application(s) : CSEPEL MUVEK FEMMUVE OF H-1751 CSEPEL 1, P.O. BOX 49, HUNGARY, A COMPANY INCORPORATED UNDER THE LAWS OF HUNGARY.

Inventor(s) : DOMOKOS SIPOS.

Application for Patent No. 264/DEL/1983 filed on 21st April 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

10 Claims.

A process for the continuous casting of a copper alloy wire rod comprising the steps of :

charging a continuous flow of pure molten copper into a crucible;

continuously loading into the copper in said crucible at a predetermined rate based on the speed of casting of the said copper alloy wire rod alloying material of the kind such as herein described to form with said pure molten copper a molten copper alloy in said crucible; passing at a predetermined casting speed a core-rod of copper of copper alloy through the molten copper alloy in said crucible whereby said molten copper alloy crystallises on said core-rod on its emergence from said crucible; and

working said crystallised rod to form the desired copper alloy wire rod.

(Complete Specification 15 pages. Drawings 1 sheet)

CLASS : 32 E.

159469.

Int. Class : C08f 3/00.

A PROCESS FOR THE PREPARATION OF A STERICALLY STABILISED AQUEOUS POLYMER DISPERSION.

Applicant.—IMPERIAL CHEMICAL INDUSTRIES PLC. OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND, A BRITISH COMPANY.

Inventors.—STEPHEN PARRY DAVIES AND MORICE WILLIAM THOMPSON.

Application for Patent No. 300/DEL/1983 filed on 10th May '83. Convention dated 20-5-1982/8214675/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

35 Claims.

A process for the preparation of a sterically stabilised aqueous polymer dispersion, in which at least one ethylenically unsaturated monomer, having a solubility in water in the range 0.08–8% by weight but giving rise to a polymer which is insoluble in water, is emulsified in water and is subjected in that state to polymerisation in the presence of (a) a non-ionisable free-radical organic azo polymerisation initiator which is water-soluble and is substantially insoluble in the monomer or monomers and (b) an amphiphathic steric stabiliser for the polymer particles produced which is a block or graft copolymer containing in the molecule a polymeric component of one type which has a molecular weight of at least 700 and is solvatable by the aqueous phase, and a polymeric component of another type which has a molecular weight of at least 700, is not solvatable by the aqueous phase and is capable of becoming associated with the said polymer particles.

(Complete Specification 46 pages. Drawings 3 sheets).

CLASS : 98 I.

159470.

Int. Cl. : F24 j—3/02.

SOLAR HEATING SYSTEM.

Applicant—SOLAR HOLDINGS S.A., A PANAMANIAN BODY CORPORATE, OF PANAMA CITY, REPUBLIC OF PANAMA.

Inventors—JOHN ALLEN MCELWAIN.

Application for Patent No. 307/Del/1983 filed on 11th May 1983.

Convention date 5-10-1978/39464/78/(Great Britain).

Divisional to Patent Application No. 511/Del/1979 dated 16th July, 1979.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

16 Claims.

A solar heating system comprising :

a collector of solar energy having a fluid inlet and a fluid outlet and arranged to heat fluid flowing therethrough;

a central system having :

a cold tank or liquid at a relatively low temperatures;

a heat pump for transferring heat from said cold tank to said heat tank

a cold exchanger in said cold tank having a fluid inlet and a fluid outlet and operative for transferring heat between fluid flowing therethrough and liquid in said cold tank;

conduits attached to said cold exchanger and arranged to direct said fluid flowing therethrough between said cold exchanger and the space to be heated or cooled by said conditioning system and said collector;

a heat exchanger in the heat tank having a fluid inlet and a fluid outlet and operative to transfer heat between liquid in said heat tank and fluid flowing through said heat exchanger; and

conduits attached to the outlet of said heat exchanger and arranged to direct fluid therefrom to the space to be heated by said solar heating system.

(Complete specification 25 pages. Drawing 3 sheets).

CLASS : 104 C & J.

159471.

Int. Class : A 01 f—25/00.

METHOD OF PRESERVING GUAYULE AND GUAYULE-LIKE PLANT MATERIAL.

Applicant(s)—THE FIRESTONE TIRE & RUBBER COMPANY, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, OF 1200 FIRESTONE PARKWAY, AKRON, STATE OF OHIO 44317, UNITED STATES OF AMERICA, MANUFACTURERS.

Inventor(s)—RICHARD GUTTIERREZ, EDWARD LEO KAY & DAVID JOHN SERBIN.

Application for Patent No. 357/DEL/1983 filed on 30th May 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

12 Claims.

A method of preserving guayule and guayule-like plant material prior to processing which comprises mixing the material comminuted form with at least one essentially water-free organic liquid to form a slurry in which the material is protected from contact with oxygen and storing said slurry for at least about 24 hours.

(Complete Specifications 26 pages).

CLASS : 12B & 12D

159472.

Int. Class : C 21d 1/06, 1/34.

APPARATUS FOR THE CONTINUOUS MANUFACTURE OF AN INDEFINITE LENGTH STRIP OF MAGNETIC MATERIAL OF THE TYPE HAVING A PLURALITY OF MAGNETIC DOMAINS AND AN INSULATIVE COATING THEREON.

Applicant—ARMCO INC., A CORPORATION OF THE STATE OF OHIO, OF 703 CURTIS STREET, MIDDLETOWN, OHIO, U.S.A.

Inventor—GARY LOUIS NEIHEISEL.

Application for Patent No. 453/DEL/83 filed on 4th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

8 Claims)

Apparatus for the continuous manufacture of an indefinite length strip of magnetic material of the type having a plurality of magnetic domains and an insulative coating thereon as herein described, said strip moving at a substantially constant speed, characterised by :

a laser means provided in any convenient position with respect to said moving strip;

a scanning means located between said laser means and said moving strip for scanning an emitted laser beam across the width of said strip to produce a plurality of spaced lines of subdivided magnetic domains and to cause the scan line to be substantially perpendicular to the direction of travel of said strip; and

a focusing lens means provided between said scanning means and said strip for focusing said beam on the surface of said moving strip so as to produce in the strip a narrow line of subdivided magnetic domains without damage to the insulative coating.

(Complete specification 29 Pages

Drawings 3 Sheets)

CLASS : 39C

159473.

Int. Class : C01c 1/00.

IMPROVED PROCESS AND APPARATUS FOR THE PRODUCTION OF AMMONIA.

Applicant : UNION CARBIDE CORPORATION : MANUFACTURERS, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, LOCATED AT : OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT, 06817, UNITED STATES OF AMERICA.

Inventor : ANDRIJA FUDERER.

Application for Patent No. 45/DEL/1983 filed on 25th January, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

50 Claims

An improved process for the production of ammonia comprising :

(a) passing a hydrogen-containing feed gas at an adsorption pressure of from 300 to 1,000 psia to a multiple bed pressure awing adsorption system capable of selectively adsorbing impurities from said hydrogen, each bed of said system undergoing the processing cycle of :

- (i) introduction of feed gas to the bed inlet end at said adsorption pressure, with adsorption of impurities therefrom and discharge of an unadsorbed, purified hydrogen stream from the discharge end thereof :
- (ii) partial cocurrent depressurization of the bed with release of hydrogen-containing void space gas from the discharge end of the bed :
- (iii) production of said released void space gas to the discharge end of an adsorption bed undergoing repressurization to equalize the pressure therebetween :
- (iv) countercurrent depressurisation of the bed with release of gas from the inlet end thereof for blowdown to its lower desorption pressure :
- (v) introduction of purge gas to the discharge end of the bed at its desorption pressure for the purging thereof, with the discharge of said purge gas from the inlet end of the bed; and
- (vi) repressurization of the purged bed to said adsorption pressure; and
- (vii) repetition of said cyclic step (i)-(vi) with additional quantities of feed gas :

(b) passing nitrogen to the discharge end of each bed as said purging gas at an elevated purge pressure of from 60 to 100 psia, the unadsorbed, purified hydrogen stream, withdrawn from each bed at said adsorption pressure during the next succeeding adsorption step containing from about 16% to about 26% by volume, nitrogen, said nitrogen comprising residual amounts of purge gas remaining in bed upon completion of said purge : and

(c) synthesizing in any known manner, ammonia from said purified hydrogen-nitrogen gas discharged from said adsorption system, whereby the purified hydrogen-nitrogen gas discharged from said pressure swing adsorption system at said adsorption pressure can advantageously be employed for the synthesis of ammonia.

(Complete specification 35 pages

Drawing 1 sheet)

CLASS : 32F₃(c)

159474.

Int. Class : C 07d 5/00.

PROCESS FOR PREPARATION OF 2, 3-DIHYDRO-2, 2-DIMETHYL-7-HYDROXYBENZOFURAN.

Applicant : FMC CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, HAVING A PLACE OF BUSINESS AT 2000 MARKET STREET, PHILADELPHIA, PENNSYLVANIA 19103, UNITED STATES OF AMERICA, MANUFACTURERS.

Inventors : BORIVOJ RICHARD FRANKO-FILIPASIC AND PHILIP BRUCE HOBSON.

Application for Patent No. 53/DEL/83 filed on 28th January, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

8 Claims

A process for thermally rearranging and cyclizing 2-methyl-2-oxo-1-phenyl-1-propanol in the presence of a solvent to form 2, 3-dihydro-2, 2-dimethyl-7-hydroxy-benzofuran characterized by heating 2-methyl-2-oxo-1-phenyl-1-propanol in a pressurizable reactor at a temperature in the range of 150°C–250°C in the presence of a catalytic amount of Lewis acid catalyst under an autogenous pressure in the range of 20 to 70 psig.

(Complete specification 11 pages

Drg. 1 sheet)

CLASS : 206 E [LXII]

159475.

Int. Class : G 01 r 13/00; G 09 f 13/00 and H 04 r 17/00.

LIQUID CRYSTAL DISPLAY DEVICE FOR USE WITH ELECTRO-OPTIC APPARATUS.

Applicant(s) : MANCHESTER R & D PARTNERSHIP, A LIMITED PARTNERSHIP ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF OHIO, U.S.A., WHOSE PARTNERS ARE JAMES R. BELL JR, LESLIE M.B. POE, JOHN F. BELL, JAMES L. FERGASON AND JAMES R. BELL III, ALL U.S. CITIZENS, OF 2731 EMERSON DRIVE, PEPPER PIKE, OHIO 44124, U.S.A.

Inventor(s) : JAMES LEE FERGASON.

Application for Patent No. 125/DEL/1983 filed on 1st March 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

12 Claims

Liquid crystal display device for use with electrooptic display apparatus which comprises a liquid crystal material such as herein described, a surface means for inducing a distorted alignment of said liquid crystal material therewith said surface means comprising containment means forming plural curved volumes containing quantities of said liquid crystal material, said liquid crystal material being operable in response to such distorted alignment at least one of to scatter or to absorb light and which in response to a prescribed electrical or magnetic input reduces the amount of such scattering or absorption and means for applying said prescribed electrical or magnetic input.

(Complete specification 27 pages

Drawing 1 sheet

CLASS : 185 E.

159476

Int. Class : A23g—1/00.

A PROCESS FOR THE PREPARATION OF COCOA BUTTER SUBSTITUTE FROM MADHUCA BUTYRACEA FAT.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SUNKIREDDY YELLA REDDY & JAMBUR VENKATESHIAH PRABHAKAR.

Application for Patent No. 148/Del/1983 filed on 9th March, 83.

Complete specification left on 6th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

A process for preparing a composition containing *Madhuca butyracea* and kokum fats suitable for use in chocolate and confectionery comprising fractionation of *Madhuca butyracea* to obtain a fraction having dilution value of 1500—1600 at 20°C and of 0—100 at 35°C followed by blending the fraction with kokum fat.

(Provisional specification 5 pages)

(Complete specification 8 pages).

CLASS : 166 G.

159477

Int. Class : B66f 7/00.

AN ACCESS PLATFORM FOR PROVIDING ACCESS FOR EQUIPMENT OR PERSONNEL TO ELEVATED POSITIONS.

Applicant : SIMON ENGINEERING DUDLEY LIMITED, A BRITISH COMPANY OF DUDLEY, WEST MIDLANDS, DY1 2HA, ENGLAND.

Inventor : DAVID LAURENCE JOHNS.

Application for patent No. 294/Del/83 filed on 9th May, 1983.

Convention date 28th May, 1982/8215680/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

An access platform for providing access for equipment for personnel to elevated positions, comprising a turntable base upon which is mounted an articulated boom system consisting of two or more booms pivotally interconnected generally end-to-end, and hydraulic actuating cylinders to swing the booms about horizontal axes relative to each other and to the turn-table base thus to elevate the booms from a generally horizontal stowed condition to a fully extended and substantially vertically aligned condition, characterised in that the first or lowermost of said booms which is elevated by a first hydraulic cylinder connected between it and said base, consists of a parallelogram linkage with one end connected pivotally to the turntable base, the other end being a bracket assembly which, owing to the parallelogram linkage, maintains a constant attitude irrespective of the angle of elevation of the lowermost boom in that the second of said booms is pivotally connected to said bracket assembly, a second hydraulic actuating cylinder for said second boom being connected between the latter and said bracket assembly and in that the second boom is pivotally interconnected at its one end to one end of the first boom adjacent to the first boom thus to enable the outermost end of the second boom to descend to a level lower than that of said bracket assembly.

(Complete specification 10 pages. Drawing one sheet).

CLASS : 103 & 144E..

159478

Int. Class : C09d 5/08.

ANTI CORROSIVE COATING COMPOSITIONS.

Application : INTERNATIONAL PAINT PUBLIC LIMITED COMPANY, A BRITISH COMPANY OF HENRIETTA HOUSE, 9, HENRIETTA PLACE, LONDON W1A 1AD, UNITED KINGDOM.

3—77 GI/87

Inventors: FRANK REEDER, MICHAEL JOHN NUNN, MICHAEL JAMES MITCHELL AND KENNETH FORD BAXTER.

Application for patent No. 335/Del/83 filed on 23rd May, 1983.

Convention date 1st June, 1982/8216000 & 10th November, 1982/8232097/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

22 Claims

An anti corrosive coating composition comprising a pigment component dispersed in a film forming binder, in which the pigment component comprises (a) a salt comprising a polyvalent metal cation and an organic polyphosphonic acid containing at least two phosphonic acid groups, and (b) a corrosion passivator capable of modifying the metal oxide film on the metal to be protected to render it more protective, the ratio of the polyphosphonate salt (a) to the passivator (b) being 1 : 1 to 50 : 1 by weight.

(Complete specification 35 pages.)

CLASS : 206 E.

159479

Int. Class : 804r-17/00.

LIQUID CRYSTAL DEVICES.

Applicant : THE SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY'S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND OF WHITEHALL, LONDON SW1 2HB, ENGLAND, A BRITISH CORPORATION SOLE.

Inventors : COLIN MARTIN WATERS AND EDWARD PETER RAYNES.

Application for Patent No. 430/Del/1983 filed on 27th June 1983.

Convention date 29-6-1982/82. 18821/(U.K.).

Appropriate office for opposition proceedings (Rule 4 Patent Rules, 1972) Patent Office Branch, New Delhi-5.

10 Claims

A liquid crystal device comprising a layer of long pitch cholesteric liquid crystal material of positive dielectric anisotropy and incorporating an amount of a pleochroic dye contained between two cell walls bearing electrode structures and being surface treated to align liquid crystal molecules in a tilted homogeneous structure characterised in that the surface alignment and natural pitch p of the cholesteric material are matched to provide a progressive molecular twist of greater than π and less than 2π radians across the layer with a uniform tilt direction, the ratio of layer thickness d divided by pitch p lying between 0.5 and 1.0 with a value of d less than 20 μ m whereby the device may be switched directly between a light transmissive ON state and a non transmissive OFF state with a sharp transmission/voltage characteristics without substantial hysteresis.

(Complete specification 20 pages Drawing 3 sheets)

CLASS : 56D.

159480

Int. Class : C 07b 5/00.

"APPARATUS FOR DEHYDRATION OF ORGANIC MATERIAL."

Applicant : AKT CONSULTANTS PTY LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES, COMMONWEALTH OF AUSTRALIA, AND HAVING A PLACE OF BUSINESS AT MAROOCHY INDUSTRIAL ESTATE ON THE CORNER OF MAROOCHYDORE ROAD AND ENTERPRISE STREET, KUNDA PARK, BUDERIM, QUEENSLAND, COMMONWEALTH OF AUSTRALIA 4556.

Inventor : JOSE LUIS RUIZ AVILA.

Application for Patent No. 452/Del/1983 filed on 4th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

10 Claims

Apparatus for the dehydration of organic material in which the material is passed from an agitation chamber and through inlet and outlet paths of a dehydration tower by means of a stream of heated air characterised in that said tower includes baffle means therein, said material passing in said stream unwardly along said inlet path on one side of said baffle means, across said baffle means and downwardly along said outlet path on the opposite side baffle means and there being provided means for varying the effective height of said baffle means so as to vary the length of the path of said material and thereby the residence time thereof in said tower.

(Complete specification 10 Pages) (Drawings six sheets)

CLASS : 146 D 3.

159481

Int. Class : G 02h 5/08; B 60r 1/02.

REAR VIEW MIRROR.

Applicant : BRITAX (WINGARD) LIMITED, OF CHANDLER ROAD, CHICHESTER, WEST SUSSEX, ENGLAND; A BRITISH COMPANY.

Inventor : WILLIAM JAMES GLUE.

Application for Patent No. 459/Del/1983 filed on 5th July, 1983.

Convention dated on 17th August 1982/U.K. (82 20775).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

A rear view mirror for a motor vehicle comprising a reflective member located in a housing and moveable relative thereto, resilient coupling means connecting one edge of the reflective member to an adjacent wall of the housing and arranged to urge the reflective member in a direction towards the opposite wall of the housing while allowing angular movement thereof about two orthogonal axes lying in planes parallel to that of the reflective member, detent means on the opposite edge of the reflective member and arranged to be urged by said resilient coupling means into engagement with complementary formations on an adjacent wall of the housing, and a control member projecting through a slot in the housing and coupled to the reflective member whereby said detent means can be displaced out of engagement with the complementary formations so as to permit movement of the reflective member about said resilient coupling means.

(Complete specification 5 pages) (Drawing one sheet)

CLASS : 63 B.

159482

Int. Class : H01r — 15/00.

A PLUG AND SOCKET CONNECTOR.

Applicant : SOCIÉTÉ D'EXPLOITATION DES PROCÉDÉS MARECHAL (SEPM), OF 92, AVENUE DE SAINT MANDE 75012 PARIS, FRANCE, A FRENCH COMPANY.

Inventor : YVES I E MAGOUROU.

Application for Patent No. 479/Del/1983 filed on 15th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

9 Claims

A plug and socket connector consisting of a plug (11) having a body (11a) containing an insulating carrier (13), said body carrying plug pins each rigidly connected to res-

pective individual conductor of a multi-conductor service cable, a socket (10) having a body incorporating input terminals (47) of a power supply line and an insulating block (28) rotatably mounted in said body of said socket, said insulating block having bores (30) each having therein a tubular sheath (29) containing a socket pin (31) slidable in said sheath by action of a spring means (42) provided between said insulating block and said socket in (31), said spring means urging said socket pin into abutment with a corresponding said plug pin, said plug and said socket having interdependent means for guiding and locking said plug and said socket together, characterised in that each said input terminal (47) and the corresponding said socket pin are electrically connected through two contact studs (45, 55), one of said contact studs (55) is connected to said input terminal (47) and the other said contact stud (45) is carried by an end of a conducting arm (51) rigidly secured to said corresponding socket pin (31), said conducting arm being pivotable about a lower part of said sheath (29), said contact studs being disposed in different relative angular position with respect to an axis of the socket when said plug and socket are not engaged, said insulating block having means (52, 53) for holding said conducting arm (51) immobile in relation to said block and for freeing said arm at the end of a relative rotary movement of said plug with respect to said socket (10) whereby said conducting arm pivots around its corresponding sheath to effect coupling of said two contact studs (45 and 55), a further spring means (50) engaging said lower part of said sheath (29) and said conducting arm to assist in sharply coupling and separating said two contact studs during said relative rotary movements of said plug with respect to said socket, and stop means (44b) being provided on a wall of said socket to cause said conducting arm (51) to turn to its initial immobile position in relation to the insulating block.

(Complete specification 22 pages) Drawing 3 sheets.

CLASS : 166-A & B.

159483

Int. Cl. : B 63 g 1/00.

SHIP WITH SEVERAL DECKS AND LONGITUDINAL AND TRANSVERSE CARRYING MEMBERS.

Applicant : BLOHM + VOSS AG., OF HERMANN-BLOHM-STRASSE 3, 2000 HAMBURG 11, WEST GERMANY.

Inventors : 1. HANS-JOACHIM FRANZ, 2. KARL-OTTO SADLER, 3. WILLI SCHMIDT.

Application No. 109/Cal/84 filed February 15, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A ship in particular a warship, having a plurality of decks arranged vertically spaced one above the other, said decks being provided with foundations for supporting pieces of apparatus, and with installation openings and hatches for the introduction of pieces of apparatus equipment and fittings into the ship's hull; wherein longitudinal support elements, such as longitudinal beams and longitudinal walls are spaced apart and extend parallel to one another along the decks; wherein transverse support elements such as transverse beams and transverse bulkheads are spaced apart and extend parallel to one another transversely of the decks; and wherein transport openings are located in at least some of the longitudinal walls and bulkheads for the transport of equipment therethrough, characterised in that the longitudinal support elements and the transverse support elements are arranged along the grid lines of a standardised grid system arranged on the ship's floor plan, with both the longitudinal grid lines and also the transverse grid lines having a uniform spacing; and in that said foundations, hatches, installation openings and the transport openings are matched into the standardised grid system.

Compl. Specn. 26 pages.

Drg. 9 sheets.

CLASS : 127-I; 160-A.

159484

Int. Cl. : B 60 p 3/00.

BRIDGE LAUNCHER.

Applicant : HARSCO CORPORATION, OF 350 POPLAR CHURCH ROAD, CAMP HILL, PENNSYLVANIA 17011, UNITED STATES OF AMERICA.

Inventor : 1. LUCIAN ZLOINICKI.

Application No. 168/Cal/84 filed March 8, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims

A bridge launcher including a vehicle body and chassis for transporting a bridge; at least one input link pivotably attached to the vehicle body; at least one follower link pivotably attached to the vehicle body; at least one input actuator operative for moving at least a part of the input link relative to the body; and characterized by at least one coupler link having a first end, a middle portion and a second end opposite the first end with a floating portion disposed at the first end, and wherein the input link is pivotably attached to the coupler link at the second end, the follower link is pivotably attached to the coupler link at the middle portion, and the vehicle is operable to launch or retrieve a bridge by moving at least a part of the input link; and at least one interfacing member attached to the coupler link at the first end for connecting a bridge to said vehicle wherein the input, coupler link and follower link are movable as a unit with respect to the vehicle body about a vertical axis for launching bridges in different directions relative to said vehicle body.

Compl. Specn. 26 pages.

Drg. 5 sheets.

CLASS : 190-B.

159485

Int. Cl. : F 02 c 7/00.

A METHOD OF MANUFACTURING A GAS TURBINE ENGINE HAVING AN ANNULAR COMBUSTOR LINER.

Applicant : UNITED TECHNOLOGIES CORPORATION, AT 1 FINANCIAL PLAZA, HARTFORD, CONNECTICUT 06101, UNITED STATES OF AMERICA.

Inventors : 1. JOSEPH JULIEN GUERTIN, 2. EARL JOSEPH PROVENCAL.

Application No. 198/Cal/84 filed March 23, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A method of manufacturing a gas turbine engine having an annular combustor liner made of high temperature alloy, wherein the liner is comprised of a generally cylindrical wall section centered about an axis, a circular flange section attached to the cylindrical wall section and extending generally transverse to the axis, and a plurality of circumferentially spaced apart rings attached to the flange, each defining an opening through the flange which is suitable for receiving a fuel nozzle or the like; which method comprises simultaneously heating a first circumferential band of the liner where the wall section joins the flange section and a second circumferential band around the flange on opposing side of the rings from the first band; and while the bands are heated, moving the rings generally radially with respect to the axis to a position displaced from their start position, and then cooling the heated band regions while holding the rings in their displaced position.

Compl. Specn. 19 pages.

Drg. 3 sheets.

CLASS : 129-I, G & O; 136-E & H.

159486

Int. Cl. : B 29 c 3/00.

POWER PRESS FOR THE MANUFACTURE OF PROFILED BODIES.

Applicant : WERYALIT—WERKE, J. F. WERZ KG. OF 7141 OBERSTENFELD BEI STUTTGART, WEST GERMANY.

Inventors : 1. JAKOB FRIEDRICH WERZ, 2. EDMUND MUNK.

Application No. 240/Cal/84 filed April 12, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A power press for manufacturing profiled bodies from a non-ascending mixture of a thermohardening bonding agent with fibrous materials, comprising :

an inner pressing tool part having a first surface;

an outer pressing tool part having a second surface and engaging said inner pressing tool part, said first and second surfaces of said inner and outer pressing tool parts being shaped to correspond to the shape of a profiled body to be pressed; and

holding means provided in one of said pressing tool parts and holding the profiled body to be pressed fixed during hot pressing.

Compl. Specn. 15 pages.

Drg. 2 sheets.

CLASS : 70-A.

159487

Int. Cl. : B 01 k 1/00.

HIGH TEMPERATURE SOLID ELECTROLYTE FUEL CELL GENERATORS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. JOSEPH MARION MAKIEL.

Application No. 273/Cal/84 filed April 26, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A high temperature solid electrolyte fuel cell generator which comprises a housing means defining a plurality of chambers including a generator chamber and a combustion products chamber; a porous barrier separating said generator and combustion products chambers; a plurality of elongated annular fuel cells each having a closed end and an open end, said open end disposed within said combustion product chamber, said cells extending from said open end through said porous barrier and into said generator chamber; a conduit for each said cell, each said conduit extending into a portion of each said cell disposed within said generator chamber, each said conduit having means for discharging a first gaseous reactant within said fuel cell; exhaust means, for exhausting said combustion product chamber, said exhaust means penetrating said housing means; manifolding means for supplying said first gaseous reactant to said conduits, said manifolding means disposed within said combustion products chamber between said porous barrier and said exhaust means, said manifolding means further comprising support and by-pass means for providing support of said manifolding means within said housing while allowing combustion products from said first gaseous reactant and a second gaseous reactant to flow past said manifolding means to said exhaust means; and means for flowing said second gaseous reactant into said generator chamber.

Compl. Specn. 13 pages.

Drg. 5 sheets.

Class 53-B.

159488.

Int. Cl. B 62 1 5/00.

BRAKE FOR BICYCLES.

Applicant & Inventor : RUNE LOHMAN, SMEDJEVA-
GEN 16, 131 33 NACKA, SWEDEN.

Application No. 298/Cal/84 filed May 3, 1984.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

Brake for bicycles provided with a free wheel, characterised
in that means (8, 25, 110, 119, 133) are provided for tempo-
rarily in-activatings aid free wheel at least during part of the
braking action to prevent locking of the brake.

Compl. Specn. 11 pages.

Drg. 4 sheets.

Class 205-H.

159489.

Int. Cl. B 60 c 9/00.

METHOD OF FORMING PNEUMATIC TYRES.

Applicant : W & A. BATES LIMITED OF 19 NEW
BRIDGE STREET, LONDON, ENGLAND.

Inventor : 1. ANTHONY GERALD GOODFELLOW.

Application No. 401/Cal/84 filed June 13, 1984.

Convention dated 29th June, 1983 (83 17687) U.K.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A method of forming a pneumatic tyre comprising separately
building an unexpanded carcass assembly and an annular tread
assembly comprising tread rubber, breaker reinforcement and
side-walls rubbers, positoning the tread assembly and the car-
cass assembly in coaxial relationship with the unexpanded
carcass disposed centrally within the tread assembly, expand-
ing the carcass into engagement with the tread assembly and
consolidating the two assemblies together.

Compl. Specn. 13 pages.

Drg. 6 sheets.

Class 129-P.

159490.

Int. Cl. B 25 b 5/00.

ADJUSTABLE HOLDER FOR A CUTTING TOOL.

Applicant : FRIED KRUPP GESELLSCHAFT MIT BES-
CHRAKTER HAFTUNG OF ALTENDORFER STRASSE
103, D-4300 ESSEN 1, FEDERAL REPUBLIC OF GER-
MANY.

Inventors : 1. WILLI JESTER, 2. NORBERT REITER.

Application No. 443/Cal/84 filed June 25, 1984.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

An adjustable holder for a cutting tool having a periphery
which includes at least one pair of primary and secondary
cutting edges that intersect at a point, comprising :

a receptacle element having a recess for accommodating the
cutting tool, said recess having a contour corresponding to part
of the periphery of the cutting tool; and

a basic element on which said receptacle element is rotatably
mounted;

wherein one of said basic and receptacle elements include

bearing means cooperating with the other of said basic and
receptacle elements for forming a pivot bearing to rotate said
receptacle element about an axis passing through the inter-
section of the primary and secondary cutting edges when the
cutting tool is accommodated in the recess.

Compl. Specn. 17 pages.

Drg. 3 sheets.

Class 103.

159491.

Int. Cl. C 23 f 9/02.

A METHOD OF PRODUCING ONTO A METALLIC
SUBSTRATE A PROTECTIVE COATING OF NI-CR
BASED ALLOY MATERIAL RESISTANT TO EROSION,
CORROSION AND OXIDATION.

Applicant : CASTOLIN S.A., OF 1025 SAINT-SULPICE,
SWITZERLAND.

Inventors : 1. WOLFGANG SIMM, 2. HANS-THEO
STEINE.

Applicant No. 455/Cal/84 filed June 28, 1984.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A method of producing, by thermal spraying of a powdered
spraying material onto a metallic substrate and fusing thereof
on this substrate, protective coating resistant to erosion, cor-
rosion and oxidation, characterized in that said spraying mate-
rial comprises a self-fluxing nickel-chromium-based allow hav-
ing the following composition, in percent by weight :

C	0.01	—2.0
Fe	0.1	—25.0 except the range of 1.5 —6
B	0.5	—4.5
Si	0.6	—5.5
Cr	18.0	—35.0
Nb	up to 2.0	
Mo	up to 15.0	
Ni	remainder	

the boron content being equal to 75 percent of the respective
silicon content, with a maximum deviation of ± 10 per-
cent.

Compl. Specn. 7 pages.

Drg. Nil

Class 205-B & K.

159492

Int. Cl. B 60 c 9/00; B 29 h 17/00.

METHOD AND APPARATUS FOR MANUFACTURE
OF TYRE COMPONENTS.

Applicant : APSLEY METALS LIMITED, OF 19 NEW
BRIDGE STREET, LONDON, ENGLAND.

Inventor : 1. ANTHONY JAMES MORGAN SUMNER.

Application No. 477/Cal/84 filed July 5, 1984.

Convention dated 5th July, 1983 (83 18119) U.K.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

A method of manufacture for a tyre component comprising
a sheet of reinforced unvulcanised rubber compound having
two parallel main surfaces comprising precoatng the rein-
forcement material fabric of the component with unvulcanised
rubber compound, placing the component in an open mould
shaped to accommodate the component arranged to contact
one of said surfaces, positioning a pressurising member to con-
tact the other said surface, maintaining the time/temperature
conditions of the mould and the component below those
required to cause vulcanisation, operating the pressuring
member to apply substantial compressive force to the com-
ponent so that the rubber compound is pressed into
intimate contact with the reinforcement and removing the
unvulcanised component from the mould.

Compl. Specn. 11 pages.

Drg 1 sheet.

Class 98-E & G.

159493.

Int. Cl. B 21 d 53/00.

HEAT EXCHANGER FOR THERMALLY TREATING A PULVERULENT MATERIAL.

Applicant : FIVES-CAIL BABCOCK, OF 7 RUE MON-TALIVET, 75383 PARIS CEDEX 08, FRANCE.

Inventor : 1. GERARD GHESTEM.

Application No. 1434/Cal/83 filed November 21, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A heat exchange apparatus for thermally treating a pulverulent material by a countercurrent flow of a gas, characterised by

- (a) a series of successive separators, each one of the separators having a cylindrical body with a horizontal axis and the cylindrical body of at least one of the cylindrical body of at least one of the separators has two inlets at respective ends and an outlet at a mid-point thereof,
- (b) gas duct means connecting the successive separators in series so that the gas flows from a source of the gas in a current through the successive separators in a first direction, the gas duct means including
 - (1) gas duct connecting the one separator to a preceding one and a succeeding one of the separators, the gas ducts respectively leading to the inlets and leading from the outlet of the one separator tangentially with respect to the cylindrical body thereof,
- (c) means for feeding the pulverulent material to be treated into the gas duct means remote from the gas source whereby the pulverulent material passes into each one of the separators suspended in the gas current and is separated therefrom in the separators, and
- (d) conduit means connecting the separators for delivering the separated pulverulent material from a respective one of the separators to a separator preceding the same in the first direction.

Compl. Specn. 12 pages.

Drg. 2 sheets.

Class 71-G.

159494.

Int. Cl. E 02 f 3/00.

A MATERIAL WORKING PARTICULARLY EARTH MOVING MACHINE.

Applicant : PULSAR INTERNATIONAL LTD., OF LES BANQUES, GUERNSEY, CHANNEL ISLANDS.

Inventor : 1. FREDERICK ARTHUR CARTERNOCK, 2. JACK STEVENS KNACKSTEDT.

Application No. 1490/Cal/83 filed December 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

25 Claims.

A material working, particularly earth-moving machine comprising vibratory means (26, 50; 126, 150) driven by driving means (36-47; 136-146), and non-vibratory means (63, 24, 28, 31, 32, 35, 30; 112, 134), characterised by vibratory tool carrier means (52; 152) for removable attachment of a working tool (14; 88; 114) or working tool unit (80), the tool carrier means incorporating first mounting means (53; 153) for its connection to the vibratory means, and second mounting means (34; 160) for its connection to the non-vibratory means, the second mounting means enabling reciprocation of the tool

tool carrier means at the point of its attachment to the second mounting means when the vibratory is in operation, the first and second mounting means being spaced from each other in, or substantially in, the direction of said reciprocation.

Compl. Specn. 18 pages.

Drg. 7 sheets.

Class 32-F1.

159495.

Int. Cl. C 08 f 3/32.

AN ENERGY SAVING PROCESS FOR PREPARING VINYL CHLORIDE MONOMER FROM ETHYLENE DICHLORIDE.

Applicant : STAUFFER CHEMICAL COMPANY OF WESTPORT, CONNECTICUT, U.S.A.

Inventor : 1. WILLIAM MILLARD BURKS, JR.

Application No. 1502/Cal/83 filed December 7, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

An energy-saving process for preparing vinyl chloride monomer from ethylene dichloride comprising :

- (a) forming a purified vapor of ethylene dichloride by distillation at a pressure from about atmospheric pressure up to about 2.0 kilograms per square centimeter gauge;
- (b) compressing the ethylene dichloride vapor to a pressure within the range of from about 6 to about 14 kilograms per square centimeter gauge; and
- (c) pyrolyzing the compressed vapor to form vinyl chloride monomer and hydrogen chloride.

Compl. Specn. 10 pages.

Drg. 1 sheet.

Class 128-H.

159496.

Int. Cl. A 61 f 5/46.

TAMPON APPLICATOR.

Applicant : TAMBRANDS LIMITED, OF DUNSBURY, HAVANT, HAMPSHIRE PO9 5DG, UNITED KINGDOM.

Inventors : 1. ALAN LEONARD BEASTALL, 2. MALCOLM GEORGE GUEST.

Application No. 1579/Cal/83 filed December 23, 1983.

Convention dated 23rd December, 1982 (82 36603) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A tampon applicator comprising an elongate hollow tampon holder shaped for vaginal insertion and having a tampon expulsion end portion and a plunger mounted in the holder and adapted to expel a tampon through the expulsion end portion from the holder interior, the expulsion end portion comprising a weakened hinge region around the periphery of the tampon holder and a dome-shaped end the base of which dome is defined by the weakened region and the dome having an appreciable substantially central aperture therein and comprising a plurality of contiguous substantially smooth segments defined by a plurality of radial slits extending from the aperture to the weakened region but not beyond.

Compl. Specn. 19 pages.

Drg. 1 Sheet

CLASS : 31-C

159497

Int. Cl. : B 01 j 17/00.

PROCESS FOR MANUFACTURING HIGH POWER SEMICONDUCTOR DEVICES.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. LI SHU CHEN, 2. JOSEPH DESALVO.

Application No. 39/Cal/84 filed January 18, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A process for manufacturing high power semiconductor devices by getting impurities during closed tube diffusion of wafers of semiconductor material comprising :

disposing wafers of a semiconductor material having a first-type of conductivity in a tube with a source of at least one suitable doping material;

sealing said tube;

forming a vacuum in a said tube;

disposing said sealed tube in a diffusion furnace for a predetermined time and at a predetermined temperature;

removing said quartz tube from said diffusion furnace and removing said wafers from said tube characterized in that a non-metallic chlorine gettering compound is disposed in said tube with said doping source and said wafers prior to said sealing.

Compl. Specn. 7 pages.

Drg. 1 Sheet

CLASS : 129-G

159498

Int. Cl. : B 21 c 23/08, 31/00

ISOTHERMAL EXTRUSION INSTALLATION.

Applicants : 1. URALSKY ELETROMAKHANICHESKY INSTITUT INZHENEROV ZHELEZNODOROZHNOGO TRANSPORTA, SVERDLOVSK, ULITSA KOLMOGOROVA, 66, USSR AND 2. PROIZVODSTVENNOE OBIEDINENIE "URALMASH" SVERDLOVSK, ULITSA MASHINOSTROITELEI, 12, USSR.

Inventors : 1. BORIS MIKHAILOVICH GOTLIB, 2. VLADIMIR MIKHAILOVICH BARANCHIKOV, 3. MIKHAIL ANDREEVICH KARASEV, 4. VLADIMIR MIKHAILOVICH SINITSKY, 5. ANATOLY ANTONOVICH VAKULIN, 6. IVAN ALEXANDROVICH DOBYCHIN, 7. VALERY VIKTORIVICH STARODUMOV, 8. JURY GRIGORIEVICH SEMYANNIKOV, 9. ANATOLY ISAEVICH LJUBLIN.

Application No: 80/Cal/84 filed February 2, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

An isothermal extrusion installation for extrusion of metal and alloys comprising, in a successive arrangement along the billet bath, a furnace for heating billets prior to extrusion, a billet temperature sensor, a press with a power actuator, a ram speed pickup, a ram pressure sensor, a hardening device with a controlled electric heating furnace and its temperature sensor, a device for dressing extruded articles, an analog-digital converter for converting signals of the temperature sensor and ram speed pickup and ram pressure sensor, and a control system connected to the outputs of the converter and intended to control the isothermal

extrusion conditions extruded article temperature sensors being respectively arranged at the outlet of the die hole of the press and at the inlet and outlet of the electric heating furnace, with outputs thereof being respectively connected to inputs of the analog-digital converter, the control system containing an isothermal extrusion rate simulation unit connected to an isothermal extrusion rate adaptation unit and a unit for determining the mechanical properties of billets, the installation further incorporating a press power actuator control unit having its first input connected to the output of the simulation unit and its second input connected to the output of the analog-digital converter and its second output to the actuator of the press, and a unit for controlling the electric heating furnace, said unit having its first input connected to the output of the simulation unit and its second input to the output of the analog-digital converter, its output being connected to the input of the electric circuit of the electric heating furnace.

Compl. Specn. 23 pages.

Drgs. 2 sheets

CLASS : 6-A₃

159499

Int. Cl. : F 04 b 37/00.

A MOTOR COMPRESSOR UNIT.

Applicant : CARRIER CORPORATION, OF 6304 CARRIER PARKWAY, P.O. BOX 4800, SYRACUSE, NEW YORK 13221, UNITED STATES OF AMERICA.

Inventor : 1. DONALD YANNASCOLI.

Application No. 82/Cal/84 filed February 3, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

Motor-compressor unit, comprising :

motor means 14,

a crankshaft (18) operatively connected to said motor means (14) and driven thereby;

at least two piston means (34, 35) operatively connected to said crankshaft (18) and driven thereby;

each of said piston means (34, 35) having fluid supply and fluid delivery means operatively connected thereto; and

means for selectively controlling said fluid supply means of said at least two piston means (34, 35) whereby said at least two piston means (34, 35) can be selectively loaded and unloaded to control the capacity of said motor-compressor unit,

characterized in that the two piston means (34, 35) have different cylinder displacements.

Compl. Specn. 18 pages.

Drgs. 6 sheets

CLASS : 185-D₂

159500

Int. Cl. : A 23 f 3/00.

A DEVICE FOR DISCRIMINATIVE BREAKING OF MADE TEA LEAVING OUT STALKS IN TACT.

Applicant : TEA RESEARCH ASSOCIATION, OF ROYAL EXCHANGES, 6 NETAJI SUBHAS ROAD, CALCUTTA-700001, INDIA.

Inventor : 1. TORUN CHANDRA BORUAH.

Application No. 92/Cal/84 filed February 8, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A device for discriminative breaking of made tea while leaving stalks intact which comprises a casing fitted at its upper end with a hopper for the feeding of said made tea and with a discharge chute at its lower end for the discharge of broken tea, one or more rotors mounted within said casing with the feed end of said hopper being offset from the central plane of said rotor or rotors, each said rotor comprising a cylinder, the body of which is constituted by a plurality of juxtaposed circularly disposed rods each parallel to the central axis of rotation of said rotor, a plurality of plates provided within said casing and disposed in substantially arcuate manner with respect to each said rotor, the feed end of said hopper being disposed in the direction of said plurality of arcuately located plates and adapted to deliver made tea said rotor or to the first of said rotors in the direction or rotation thereof and means connected to said rotor or rotors for driving the same.

Compl. Specn. 5 pages.

Drg. 1 sheet.

CLASS : 36-B₁

159501

Int. Cl. : F 04 d 29/00.

"AN IMPROVED FAN IMPELLER".

Applicant : THE GENERAL ELECTRIC COMPANY OF INDIA LIMITED OF MAGNET HOUSE OF 6, CHITTARANJAN AVENUE, CALCUTTA 700 072, INDIA.

Inventors : MAN MOHAN BHARGAVA, 2. CHANCHAL KUMAR PAUL.

Application No. 3122/Cal/84 filed may 9, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

An improved fan impeller comprising an annular hub provided with a bore and having fixing means for fixedly mounting said hub to a drive shaft, a plurality of blades spaced equidistant to each other and made of sheet steel each pressed to present a leading edge and a trailing edge along the longitudinal axis of said blade of such profile as to produce low air turbulence and consequent reduction in air cutting noise with increased efficiency of air volume delivered, a lug portion at the hub end of said blade having a notch for fixedly mounting to said hub by cold forging, and for interlocking with the blade located each side thereof by welding and rivetting, one said lug portion of each blade being mounted above and the other portion below the corresponding lug portion of the adjacent blades whereby the lug portions of said blades comprise a permanently fixed interlocking structure with the hub.

Compl. Specn. 10 pages.

Drg. 1 sheet.

CLASS : 98-I.

159502

Int. Cl. : F 24 j 3/02.

"SOLAR HEATING SYSTEM".

Applicants and Inventor : 1. CARROLL E. BREKKE, 6138 MONTERO ROAD 83 SAN JOSE, CA 95138, UNITED STATES OF AMERICA;

2. APURBA KUMAR MUKHERJEE, 4480 POINSETTIA COURTS, SAN JOSE, CA 95136, UNITED STATES OF AMERICA.

Application No. 222/Cal/81 filed February 28, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

22 Claims

A solar heating system for heating water having a solar heat collector and a heat exchanger below said collector, said exchanger extracting heat from the said liquid, comprising :

Pressure maintaining means for maintaining said collector at a pressure below atmospheric pressure such that said liquid therein boils and produces a vapor at a temperature below the boiling temperature of said liquid at atmospheric pressure;

a conduit from a lower level to a higher level in said system;

a lift tube in liquid flow communication with said conduit;

means for bubbling said vapor upwardly through said lift tube for producing a force for lifting said cooled liquid from said heat exchanger to an elevation above said collector;

condenser means for receiving said cooled liquid and condensing said vapor; and

conducting means for conducting said liquid from said condenser means to said collector.

Compl. Specn. 19 pages.

Drg. 6 sheets.

CLASS : 62-B, C₂

159503

Int. Cl. : D 06 p 3/00.

"A SOLID DYESTUFF COMPOSITION OF WATER-SOLUBLE FIBRE-REACTIVE DYESTUFFS AND CONDENSATION PRODUCTS".

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. LUDWIG SCHLAFFER, 2. HEINZ UHRIG.

Application No. 298/Cal/82 filed March 17, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A solid dyestuff composition which contains 30 to 95% by weight of at least one water-soluble fibre-reactive dyestuff such as herein described and 5 to 70% by weight of at least one of condensations products which had been formed from a dialkyl naphthalene sulfonic acid, or a mixture thereof, and formaldehyde as components.

Compl. Specn. 21 pages.

Drg. 2 sheets.

CLASS : 98-I.

159504

Int. Cl. : F 28 f 3/00.

"HEAT EXCHANGERS".

Applicant : TI (GROUP SERVICES) LIMITED, OF TI HOUSE, FIVE WAYS, BIRMINGHAM, ENGLAND.

Inventor : 1. WILLIAM ROBERT GRAHAM.

Application No. 791/Cal/82 filed July 8 1982.

Convention dated 9th July, 1981 (81 21189) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims

A heat exchanger comprising; a heat absorbing or radiating

panel formed from a plate having a tube or tubes, through which a heat exchange medium may be circulated, mounted in thermal contact therewith; a seamless frame member formed from sheet material surrounding the panel; and joining means interposed therebetween, to locate adjacent edges of the frame member and panel and secure them together.

Compl. Specn. 14 pages.

Drg. 3 sheets.

CLASS : 174-D₄; 173-A.

159505

Int. Cl. : A 61 m 11/00; D 01 h 11/00, 13/28;

F 24 f 5/00.

"A PNEUMATIC SYSTEM FOR LOCAL CONTROL OF RELATIVE HUMIDITY PARTICULARLY AT AN JUTE SPINNING FRAME".

Applicant : INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION, OF 17, TARATOLA ROAD, CALCUTTA-700 088, WEST BENGAL, INDIA.

Inventors : 1. RAMENDRANATH ADITYA, 2. AMALENDU SARKAR.

Application No. 1055/Cal/82 filed September 10, 1982.

Complete Specification left on 19th August, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A pneumatic system for local control of relative humidity, particularly at a jute spinning frame, comprising a pneumatic atomiser having connected therewith a source of water for regulated flow of water into the atomiser, and also an air-compressor equipped with pressure regulating means for introducing into the atomiser compressed air at constant predetermined pressure corresponding to the amount of water fed into the atomiser.

Provisional Specn. 5 pages.

Drg. 1 sheet.

Compl. Specn. 8 pages.

Drg. Nil.

CLASS : 65-B₁

159506

Int. Cl. : H 01 f 27/28.

"HIGH PERMEABILITY CORE WITH A BUTT-LAP JOINT".

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. JEEWAN LAL PURI.

Application No. 1158/Cal/82 filed October 7, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A high permeability magnetic core with a butt-lap joint for electrical inductive apparatus, comprising :

- (a) a plurality of layers of laminations stacked to a predetermined dimension forming at least first and second leg members and lower and upper yoke members and defining a magnetic flux path, each of said layers comprising at least first and second leg laminations having first and second diagonally cut ends, and the lower and upper yoke laminations having second and third diagonally cut ends which normally abut the first and second diagonally cut ends of form miter joints resulting into some voids at said joints; and
- (b) an adhesive substance disposed in such voids, which substance comprises at least 90% by volume of iron alloy particles such as hereinbefore described and a binder.

Compl. Specn. 6 pages.

Drg. 2 sheets.

CLASS : 32-F₁.

159507

Int. Cl. : C 07 c 69/02+69/64.

A PROCESS FOR THE PREPARATION OF α -CHLOROMETHYL CHLOROFORMATE".

Applicant : SOCIETE NATIONAL DES POUDRES ET EXPLOSIFS OF 12, QUAI HENRI IV, 75 181, PARIS, CEDEX 04 FRANCE.

Inventors : 1. ROY ARNE OLOFSON, 2. JONATHAN THOMAS MARTZ.

Application No. 1318/Cal/82 filed November 10, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A process for the preparation of α -chloromethyl chloroformate which comprises introducing gaseous formaldehyde, previously dried in monomeric form into a reactor containing phosgene and catalyst as a selected from the group consisting of a substituted amide, a tetrasubstituted urea, a tetrasubstituted thiourea, a nitrogen completely substituted phosphoramidate, a quaternary ammonium halide, the substitute of which include a total of at least 16 carbon atoms, an alkali or alkaline earth halide associated with a sequestering agent of their cation and the reaction products of said catalysts which phosgene, in the total absence of water and hydrochloric acid at a temperature between -10°C and $+60^{\circ}\text{C}$.

Compl. Specn. 12 pages.

Drg. 1 sheet.

CLASS : 48-A & C.

159508

Int. Cl. : H 01 b 7/00.

"A PROCESS FOR PREPARING A CROSSLINKABLE COMPOSITION HAVING APT PROPERTIES AS AN INSULATING MATERIAL".

Applicant : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. ALEXANDER FU WU, 2. ROBERT BRUCE WALTERS.

Application No. 1240/Cal/82 filed October 20, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A process for preparing a cross linkable composition having apt properties as an insulation material comprising the following ingredients :—

INGREDIENTS	RANGE
Polyolefin	100
Bromine containing treated flame retardant	5-80
Dibasic lead phthalate	0-20
Silicone gum	0-20
Lead stearate	0-3
Octamethyltetracyclosiloxane	0-5
Triallyl cayurate	0-5
Zinc salt of a mercaptomidazole	0.5-15
Stearically hindered di-tertiary butyl phenol	0.5-15

which comprises :

preparing a blend of flame retardant ingredients as follows :

INGREDIENTS**PROPORTIONS**

Decabromodiphenyl oxide	100
Antimony oxide	10-70
Fumed silicat	5-30
Reactive silicone fluid	0.1-10

ovenizing the flame retardant ingredients blend;

adding the ovenized blend to additional ingredients as follows :

INGREDIENTS**RANGE**

Polyolefin	100
Bromine containing treated flame retardant	5-80
Dibasic lead phthalate	0-20
Silicone gum	0-20
Lead stearate	0-3
Octamethyltetraacyclosiloxane	0-5
Triallyl cayurate	0-5
Zinc salt of a mercaptomidazole	0.5-15
Sterically hindered di-tertiary butyl phenol	0.5-15

and recovering the composition thus formed.

Compl. Specn. 29 pages.

Drg. 1 sheet

CLASS : 130-F.

159509

Int. Cl. : C 22 d 3/02, 3/12.

"COMBINED MECHANISED APPARATUS FOR CRUST BREAKING AND ALUMINA FEEDING OPERATION IN AN ELECTROLYTIC REDUCTION CELL USED FOR ALUMINIUM MANUFACTURING".

Applicant and Inventor : VENKATARAMAN THIRU MOORTHY OF DOOR NO. 733, BLOCK P, NEW ALIPORE, CALCUTTA-700053, WEST BENGAL, INDIA.

Application No. 1502/Cal/82 filed December 28, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

Apparatus for breaking of top crust and feeding alumina to an electrolytic cell for the recovery of aluminium, comprising a reservoir for storing said alumina, means for measuring a quantity of alumina from said reservoir for conveying the measured alumina from the measured means to the electrolytic cell cavity through the recess created in the crust and molten bath and means for breaking said crust, said measuring means comprises a moving hollow piston with suitable inlet and outlet port designs disposed in the reciprocating shaft along its length and said breaking means comprises a breaker bit for breaking and piercing the crust and/or molten bath layer through a predetermined distance, creating a recess for subsequent introduction of alumina through the said recess.

Compl. Specn. 18 pages.

Drg. 5 sheets.

4-77 GI/87

CLASS : 123.

159510

Int. Cl. : A 01 n 7/00.

"PROCESS FOR PREPARING SUBSOIL OF LATOSOL ORIGIN SUITABLE FOR USE IN ROOTING COMPOSITIONS".

Applicant : THE UNITED PLANTERS' ASSOCIATION OF SOUTHERN INDIA, OF "Glenview", P.B.No. 11, Coonor 643 101 (Nilgiris), Tamil Nadu, India, an Association registered under the Societies Registration Act (1860)

Inventor : DR. VUPPULURI SURYANARAYANA SHARMA.

Application No. 51/MAS/82 filed March 8, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

10 Claims

A process for preparing subsoil of latosol origin, comprising the steps of (a) collecting subsoil from below soil surface, said subsoil having initial pH of atleast 4.5, (b) drying the subsoil of step (a) after removing organic debris and pebbles, if any, therefrom, (c) pulverising the dried subsoil of step (b), (d) reducing the pH of the subsoil to the level of 3.5 to 4.2 by treating with sulphur or an amphoteric metal sulphate solution thereby forming a suspension of said subsoil and sulphur or metal sulphate, (e) stirring the suspension occasionally and allowing it to stand to complete the reaction of step (d), (f) filtering the suspension and washing it thoroughly with distilled water, and there after (g) washing the residue with alcohol and drying it under shade at room temperature to obtain subsoil of latosol origin having pH in the range of 3.5 to 4.2.

(Com. 8 pages; No Drawing).

CLASS : 69 A, & B.

Int. Cl. : H 01 h -47/00.

"A STATIC TRIP RELEASE SYSTEM FOR USE IN A CIRCUIT BREAKER".

Applicant : THE ENGLISH ELECTRIC CO. OF INDIA LTD. having their principal place of business at 19/1, G.S. T. Road, Pallavaram, Madras 600 043. Tamil Nadu India, an Indian Company.

Inventor : GIRISH GOVIND RAO.

Application for Patent No. : 187/Mas/82 filed on 7th October 1982.

Complete Specification left on 7th January 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

10 Claims

A static trip release system for use in a circuit breaker comprising circuit interrupting means.

a low energy current actuated trip device.

sensing means for sensing load current passing through the circuit breaker, a peak detecting circuit connected to the output of the said sensing means, the output of the peak detecting circuit being the signal current which is linearly proportional to the current through the circuit breaker,

a voltage regulator which is fed by the signal current from the said peak detecting circuit and generates a substantially constant D. C. voltage from the signal current and also stores electrical energy necessary for activating the said current actuated trip device, energy necessary for activating the said current actuated trip device,

a signal resistor which generates signal voltage proportional to the said signal current,

a switchable gain scaling amplifier comprising a first analogue operational amplifier, an input resistor connected to the inverting input terminal of the said first operational amplifier, a feed back resistor connected between the output and the inverting input of the said first operational amplifier, which receives signal voltage from the said signal resistor and generates an output voltage proportional to the signal voltage by a ratio which is adjustable.

an overload comparator made of second analogue operational amplifier which compares the output voltage of the said scaling amplifier with a predetermined reference voltage and thus initiates starting of a timing circuit when the load current exceeds a predetermined limit,

said timing circuit comprising a third analogue operational amplifier whose non-inverted input is fed by the output of the said scaling amplifier, an n-p-n-transistor whose base is fed by the output of the said third operational amplifier and whose emitter is connected to the inverted input of the said third operational amplifier, a timing capacitor connected between the positive bus and the collector of the said transistor, and a plurality of elements, each element comprising a diode and a resistor connected in series, the anode of the diode in each element being connected to the emitter of the said n-p-n transistor and the other ends of the elements being connected to a plurality of predetermined reference voltage levels in the master potential divider,

the arrangement of the timing circuit enabling the timing capacitor to be charged by a current which is proportional to the output of the scaling amplifier which in turn is proportional to the load current through the circuit breaker, the said proportion being decided by the values of the said registers and values of the said reference voltage levels,

a short circuit comparator comprising a zener diode connected between the positive and negative buses through a resistor thus generating a predetermined positive voltage at its cathode, and a diode which so connects the cathode of the said zener to the emitter of the n-p-n transistor that a predetermined high value of current charges the timing capacitor instantaneously or within a desired short time,

a timing comparator made of a fourth analogue operational amplifier which compares the voltage across the said timing capacitor with a predetermined reference voltage and gives an output command to the tripping circuit when the voltage across the timing capacitor exceeds the predetermined reference limit.

a master potential divider comprising a plurality of fixed value resistors connected between the positive and negative buses and which thus generates a plurality of predetermined reference voltages,

a tripping circuit comprising a thyristor which is turned on by the command from the said timing comparator and thus activates the current actuated trip device,

an interlocking circuit which allows the fixing of the said thyristor only when a desired voltage across the positive and negative buses is established, and

an instantaneous override tripping circuit which initiates the tripping by turning on the said thyristor instantaneously when the signal current exceeds a predetermined value.

Provisional Specification 21 Pages Drg. 3 Sheets.

Complete Specification 30 Pages Drg. 1 Sheet.

CLASS 43-A+F & 148-J.

159512

Int. Cy. : G 03 b 7/00, 15/00.

"AN IMPROVED BLOW PRINT REDUCING DEVICE FOR CINEMATOGRAPHIC FILM".

Applicant & Inventor : MASILAMANI RAJAMANICKAM BALAKRISHNAN, 9, BAKTHAVASALAM COLONY, 1ST STREET, VADAPALANI, MADRAS-600 026, TAMIL NADU.

Application No. 238/Mas/82 filed December 2 1982.

Complete Specification left : January 2, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

1 Claim

An improved blow print reducing device for cinematographic film comprising a converging lens, consisting of a convex lens arrangement on the guiding rails and an aperture mask, the said aperture mask being positioned before the positive film in such a way as to mask two of the four perforations while printing, thereby reducing the size of the printed positive to half, the initially masked half portion of the film capable of being printed in a similar way.

Prov. 4 pages; Com. 7 pages; Draws. 3 sheets.

CLASS : 98 I

159513

Int. CL. : F 24 j 3/02.

"A TRACKING SOLAR CONCENTRATOR FOR HEATING SUBSTANCE".

Applicant & Inventor : KOTTAYAM KADANGODE ARUN KRISHNAN, No. 16, 10TH AVENUE HARRINGTON ROAD, MADRAS-600 030, TAMIL NADU, INDIA, INDIAN NATIONAL.

Application No. 60/Mas/1983, filed on 12th March 1983.

Complete Specification left on 16th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

A tracking solar concentrator for heating substances comprising a solar concentrator swivelably mounted on a frame, the body to be heated being stably disposed on the frame and the heat reflecting surface of the concentrator being directed towards the body characterised in that an insulator shell is located on the dark side of the body, the shell also being swivelably mounted on the frame; and a time-based prime mover such as herein described is coupled to the shell and concentrator, whereby the shell and concentrator are swivelably moved by the prime mover to track the sun, with the heat reflecting surface of the concentrator always directed towards the body and the shell always located on the dark side of the body.

Prov. Specn. 3 pages

Drg. 1 sheet.

Compl. Specn. 5 pages.

Drg. Nil.

CLASS : 9 D & F.

Int. CL. : C 22 c 39/00.

"A METHOD OF MANUFACTURE OF WEAR-RESISTANT COMPOSITE MATERIAL".

Applicant : WIDIA (INDIA) LIMITED, 8/9TH MILE, TUMKUR ROAD, BANGALORE-560 073, KARNATAKA, INDIA.

Inventors : (1) MR. RANGARAJAN SRINIVASAN AND (2) MR. KARKALA SADANANDA.

Application No. 119/Mas/83 filed May 28, 1983.

Complete specification left on 28th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A method of manufacture of wear-resistant composite material comprising the preparation of a metal matrix; embedding hard material and/or hard metal, such as herein described, in grain or piece form therein characterised in that

the matrix is of sintered or prepared out of cast metal having a composition of 1 to 4% c, 0.3-0, 6% si, 0.5-1.5% Mn, 0.8-2, 8% V, 0.5-1.5% Cr, 2-10% W, 0.01% Al, the rest being Fe, and the grain or piece size of the hard material and or the hard metal pieces being in the order 0.5-5 mm, the said hard metal/hard material being added into the cast contained in a vibrating mould pre-heated to 800°C-1200°C and the molten liquid simultaneously cooled, the proportion of the metal matrix to the hard material and/or hard metal being in the range of 5-20 parts by weight of metal matrix to part by weight of the hard material and/or hard metal.

Prov. specn. 9 pages.

Compl. Specn. 9 pages.

Drg. 2 sheets.

CLASS : 206 E & 69 I

159515

Int. Cl. : H 03 k 17/08 & 17/56

"A HIGHSPEED COMMUTATION FAILURE DETECTOR FOR A THYRISTOR CHOPPER".

Applicant : KIRLOSKAR ELECTRIC COMPANY LTD., MALLESWARAM WEST, BANGALORE-560 055, KARNATAKA, INDIA.

Inventor : (1) RANGASWAMY ALAGIRISWAMY AND (2) KRISHNA MURTHY RAVISHNKAR.

Application No. 125/Mas/83 filed June 6, 1983.

Complete specification left on 6th September, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

3 Claims

A high speed commutation failure detector for a thyristor chopper comprising a voltage-divider for applying the voltage of the thyristor; a first threshold circuit connected to the voltage-divider for detecting the level of the input signal thereto and producing a change in its output signal level; a set-reset switch connected to the first threshold circuit, the said switch being initially set by a communication start signal, the said switch resetting on the occurrence of a change in the output signal level of the first threshold circuit, a filter for smoothening the output of the set-reset switch and thus providing an average voltage; a second threshold circuit for receiving the output of the filter, the said second threshold circuit detecting the level of the input signal thereto and producing a change in its output signal level, to actuate a protective device.

Prov. specn. 7 pages.

Drg. 1 sheet.

Compl. specn. 8 pages.

No drg. sheet.

CLASS : 19 A & 129 Q.

Int. Cl. : F 16 b 35/06.

"A METHOD OF WELDING A STUD OR PIN TO A WORK PIECE AND A DEVICE FOR CARRYING OUT THE SAID METHOD".

Applicant : KIRLOSKAR ELECTRIC COMPANY LTD., MALLESWARAM WEST, BANGALORE-560 055, KARNATAKA, INDIA.

Inventor : (1) CHANNAKESHAHA AND (2) CHIMANAHALLI NAGARAJA RAO SURESH.

Application No. 156/Mas/83 filed July 13, 1983.

Complete specification left on 15th October, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

8 Claims

A method of welding a stud or pin to a work piece, the stud or pin comprising a head and a shank, the head portion having a flange characterised in that the flange has a tapered surface surmounted by a pip coaxial with the shank and flange, the said method comprising the steps of inserting the shank into a handtool such as a welding gun connected to a capacitor discharged energy source to cause such energy to be discharged through the stud itself; bringing the stud against a work piece and operating the handtool, such that energy is discharged through the stud to disintegrate the pip and the stud is, simultaneously, forced outwardly by the handtool against the work piece during such energy discharge, to weld the flange against the work piece.

Prov. specn. 10 pages.

Drg. 1 sheet.

Compl. specn. 13 pages.

No. drg. sheet.

CLASS : 107 C.

159517

Int. Cl. : F 02 b 77/00.

"A CYLINDER HEAD FOR A FOUR STROKE INTERNAL COMBUSTION ENGINE".

Applicant & Inventors : CAPT. JAMSHED KAIKOBAD MUNSHI AND CARL FRANCIS STEPHEN MUNSHI OF 125 KARIYANPALYA, ST. THOMAS TOWN P.O. BANGALORE-560 084, KARNATAKA, INDIA.

Application No. 167/Mas/83 filed August 3, 1983.

Complete Specification left on 5th November, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

5 Claims

A cylinder head for a four stroke internal combustion engine characterised by a single cam actuated poppet valve in combination with a rotary or distributor valve, the poppet valve being provided for the mouth of the cylinder and driven by a shaft coupled to the crankshaft of the engine while the rotary or distributor valve is provided adjacent the inlet and outlet ports of the cylinder head, surrounding the poppet valve, the said rotary or distributor valve being coupled by a positive drive to the said shaft and having a port for aligning itself, in two angular positions thereof, with the said inlet and outlet ports, whereby, during and after the suction and exhaust strokes the poppet valve and the rotary or distributor valves are respectively actuated by the said cam and the said drive to simultaneously open and simultaneously close the inlet and the outlet ports in succession, respectively.

Prov. Specn. 4 pages.

Drg. 4 sheets.

Compl. specn. 8 pages.

Drg. 1 sheet.

CLASS : 54 & 83 A₁

159518

Int. Cl. : A 231 1/40.

"A PROCESS FOR THE PREPARATION OF TOMATO KETCHUP POWDER".

Applicant : MYSORE SNACKFOODS LIMITED, 19, PLATFORM ROAD, BANGALORE-560 023, KARNATAKA INDIA.

Inventor : MYSORE RAMA RAO CHANDRA SEKHARA.

Application No. 168/Mas/83 filed August 3, 1983.

Complete specification left on 5th November, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

9 Claims

A process for the preparation of tomato ketchup powder comprising the steps of separating tomato juice from seeds and concentrating the same in evaporating pans until the brix of the concentrate is raised to 9.5%—12.5% of the total solids; blending the resulting pulp with flour cooked in a high pressure extruder; drying the blend in hot air or vacuum driers without affecting its reconstitutability such as by charring or loss of flavour and powdering the same; and mixing the powdered blend with spices, salt and citric acid.

Prov. specn. 6 pages.

No Drg. sheet.

compl. specn. 9 pages.

No Drg. sheet.

CLASS : 139 G.

159519

Int. Cl. : B. 21 c 3/18.

"A METAL WORKING DIE"

Applicant : WIDIA (INDIA) LIMITED, 8/9TH MILE, THMKUR ROAD, BANGLORE-560 073, KARNATAKA, INDIA.

Inventor : (i) MR. HET RAM GUPTA. (ii) DR. AMITAVA SHYAM CHOUDHURY.

Application No. 209/Mas/83.

Appropriate office for opposition proceedings (Rule 4, Patents rules, 1972) Patent Office, Madras Branch.

3 Claims

A metal working die comprising a collar snugly accommodated within its main body, the bore of the collar being tapered for receiving in shrink-fit, a pellet/NIB having a matching external taper, leaving a gap between the base of the collar and the base of the said body, whereby while hot forming, the collar is enabled to move within the body in the space between the collar and the said base, either under pressure or heat expansion, but the pellet/NIB continues to be held firmly in position to receive only compressive loads without affecting its hoop-stress carrying capacity.

Compl. specn. 6 pages.

Drg. 1 sheet.

CLASS : 128 F.

159520

Int. Cl. : A 61 m—3/00, 5/18.

"A DISPOSABLE PLASTIC SYRINGE FOR MEDICAL USE, AND A PLASTICS PLUNGER, ESPECIALLY FOR DISPOSABLE SYRINGES".

Applicant : KOZPONTI VALTO—cs HITEL BANK RT. INNOVACTOS ALAP.

Inventors : ANDRAS ADORJAN, CSABA DAVID.

Application No. 1/Mas/84 filed 2nd January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents rules, 1972) Patent Office, Madras Branch.

22 Claims

A disposable plastics syringe for medical use, comprising substantially rigid plastics barrel (1) having a closed end with a taper nozzle (11) to which an injection needle of suitable size can be attached, a plunger (2) comprising a single, at least partially soft-elastic, component part made of thermoplastics material and in direct sealing and sliding engagement with the inner wall surface of the barrel, and the other end of the barrel opposite to its said closed end being an open end closed by a separate closure member (4) which provides a substantially shape-retentive, not readily deformable, positive slide guide for a reciprocable plunger shaft (3) to which the plunger is connected, and which plunger shaft is radially spaced from the inner wall surface of the barrel.

Compl. specn. 24 pages.

Drg. 2 sheets

CLASS 107 C. & G.

159521

Int. Cl. : F. 02 b 75/16.

"WATER-COOLED DIESEL ENGINE FOR USE AS OUT BOARD ENGINE".

Applicant : YANMAR DIESEL ENGINE CO. LTD., 1—

32, Chayamachi, Kita-ku, Osaka-shi, Osaka-fu, Japan a Japanese Corporation.

Inventor: KOICHI AMEMORI, 2. TOSHIHIKO KAWABE.

Application No. 20/Mas/84 filed January 13, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A water-cooled diesel engine for use as a marine out-board engine, including a cylinder block and a cylinder head formed as an integral unit from a lightweight alloy of aluminium and having a combustion chamber, a corner position of said combustion chamber formed by said cylinder block and said cylinder head being rounded to have an arcuate cross-section; at least one dry liner integrally cast in said cylinder block and provided with a honed inner peripheral surface, a radially outwardly recessed honing relief portion being formed in an end portion of said inner peripheral surface of said dry liner adjacent to the end of said combustion chamber, the end of said dry liner being positioned below said rounded corner portion of said combustion chamber and extending above the location of a top ring on a piston positioned at top dead center in said liner whereby honing of said cylinder block is avoided; and intake ports and exhaust ports being in communication with an exhaust manifold formed integrally with said cylinder block and said cylinder head.

Compl. specn. 30 pages.

Drg. 6 sheets.

CLASS : 172 C-4.

159522

Int. Cl. : D 01 h 5/00.

"A DRAFTING SYSTEM FOR A SPINNING MACHINE".

Applicant : KABUSHIKI KAISHA TOYODA JIDOSHOKKI SEISAKUSHO, a juridical person organized and existing under the laws of Japan, of 1, Toyoda-cho, 2-chome, City of Kariya, Aichi Prefecture, Japan.

Inventors : KIWAMU NIIMU, KENJI KINOSHITA.

Application No. 53/Mas/84 filed 31st January 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

A drafting system for a spinning machine comprising a back bottom roll, an apron bottom roll and a front bottom roll, all connected at the same side ends thereof to a driving source through a first drive transmission system and driven at a predetermined speed ratio between any of two of said rolls, characterized in that said apron bottom roll is divided at a preselected longitudinal position into a first section at one side end and a second section at the other side end; said front and back bottom rolls are operatively connected at the respective other side ends to a second drive transmission system; and said second drive transmission system is operatively connected to said second section of said apron bottom roller; whereby rotation of said front bottom roll and said back bottom roll is transmitted to said second section of said apron bottom roller.

(Complete Specification 18 Pages, Drawings, 3 Pages).

CLASS : 172 D.4.

159523

Int. Cl. : B.65 g 11/00.

"SUPPLY CHUTE FOR SUPPLYING EMPTY BOBBINS TO A SPINNING FRAME".

Applicant : KABUSHIKI KAISHA TOYODA JIDOSHOKKI SEISAKUSHO, OF 1, TOYODA-CHO, 2 CHOME, CITY OF KARIYA, AICHI PREFECTURE, JAPAN; A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF JAPAN.

Inventors : 1. TSUTOMU MIYAZAKI. 2. TATEMI FUKUDA. 3. KAZUYA YOSHIMINE.

Application No. : 54/MAS/84 filed January 31, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A supply chute for supplying empty bobbins to a spinning frame in which empty bobbins are supplied in substantially horizontal position to a reserve unit disposed above a conveyor adapted to transport empty bobbins to the spinning frame, characterized in that the chute presents a zigzag-shaped route extending in the proceeding direction of the empty bobbins, in that said zigzag-shaped route comprises a series of juxtaposed substantially vertically extending sections, each being shorter in length than the empty bobbin, and in the each said section is horizontally offset from adjoining one or ones of said sections.

(Compl. Specn. 11 pages. Drgs. 1 Sheet).

CLASS 170 D.

159524

Int. Cl. : C. 11d 9/22.

"A PROCESS FOR THE PREPARATION OF MENTHOL SOAP."

Applicant : TAKASAGO PERFUMERY CO., LTD. of 19-22, 3-chome, TAKANAWA, MINATE-KU, TOKYO, JAPAN.

Inventors : 1. HAJIME WATANABE. 2. YOSHIO TANAKA. 3. SEIICHI ABE.

Application No. 64/MAS/84, Filed February 2, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A process for the preparation of a novel menthol soap comprising soap base, 1 to 7% by weight of menthol based on the weight of the soap base, 1 to 7% by weight of a crack-preventing agent such as herein described, and a solvent such as herein described in an amount of from 1/3 to 3/2 that of the menthol, wherein the process comprises mixing the soap base with the molten crack-preventing agent, admixing said mixture with a solution of menthol in said solvent, milling the resultant mixture and thereafter moulding.

(Comp. Specn. 11 pages)

(Drg. Nil.)

CLASS. 13A, 179F, G, & 143.

159525

Int. Cl. : B65 d 75/52.

"PACKING CONTAINER WITH FOLD-OUT POURING SPOUT".

Applicant : TETRA PAK INTERNATIONAL AB, of Box 1701, S-221 01, LUND 1, SWEDEN, a company organised under the laws of Sweden.

Inventor : ULF JORI MIKAEL LINDSJO.

Application No. 71/Mas/84 filed February 4, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

A packing contained with fold-out pouring spout of the type which is of a substantially parallelepipedic main shape which is delimited from an upper wall of the packing container, by means of weakening lines which extend in the direction form the corner of the pouring spout connected to the upper wall towards a sealing fin running centrally over the upper wall, wherein the weakening lines extend at unequal angles towards the sealing fin.

(Compl. Specn. 12 Pages)

(Drawing 1 Sheet)

CLASS : 32 E

159526

INT. CL. C. 08 g 37/18.

A METHOD OF CURING AN EPOXY RESIN CONTAINING TWO OR MORE 1, 2 --EPOXIDE GROUPS PER MOLECULE"

Applicant : UNION CARBIDE CORPORATION A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, LOCATED AT: OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT-06817, UNITED STATES OF AMERICA.

Inventors : LINDA ANN DOMEIER, HUGH CHESTER GARDNER, GEORGE THOMAS KWATKOWSKI.

Application No. : 72/Mas/84 filed February 6, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

31 Claims.

A method of curing an epoxy resin containing two or more 1, 2-epoxide groups per molecule comprising reacting the epoxy resin with a diamine hardener represented by the general formula shown in fig. 1 of the accompanying drawings, wherein the X's are independently selected from a direct bond, O, S, SO₂, CO, COO, C(CF₃)₂, (C(CR₁R₂))₂ wherein R₁ and R₂ are independently hydrogen or alkyl or 1 to 4 carbon atoms, Q is alkyl of 1 to 4 carbon atoms, n₁ through n₄ are independently 0 to 4 carbon atoms with proviso that at least one of the n's is one or greater,

(Compl. Specn. pages 28.

Drg. 5 Sheets)

CLASS. 153, 129 G. & 127 I

159527

Int. Cl. B 24 b 33/10.

"AN IMPROVED HONING STONE GUIDE ASSEMBLY FOR A HONING DEVICE".

Applicant : SUNNEN PRODUCTS COMPANY, a Delaware Corporation, 7910 Manchester Avenue, St. Louis, Missouri 64143, U.S.A.

Inventors : ROBERT MILLER SUNNEN, DUANE WALKER WOLTJEN.

Application No. 75/Mas/84 filed February 6, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Madras Branch.

14 Claims

An improved honing stone guide assembly for a honing device comprising a master holder assembly having opposed surfaces and at least one opening extending between said surfaces, a stone guide assembly having at least one portion thereof projecting therefrom which mates with and is insertable into the opening in said master holder assembly, corresponding in number and location to the number and location of openings extending through said master holder assembly, each of said projecting portions being made from a malleable material and each having an opening extending there through at least portion of which includes an irregular

non-round cross sectional shape extending over at least a portion of the length thereof, said irregularly non-round shaped opening portions being located in the area of said openings that extend through the corresponding openings in said master holder assembly when said projecting portions extend into said master holder openings, and a tool member having a first end portion sized and shaped to be extendible into the irregular non-round openings in the projecting portions of said stone guide assembly such that when said tool member is rotated in one of said non-round openings said first tool end portion is forced into engagement with said irregular non-round opening portion into thereby radially outwardly expanding said irregular non-round opening portion into engagement with the corresponding opening in said master holder assembly.

(Complete Specification 28 Pages)

(Drawings 5 Sheets)

CLASS. 33 F.

159528

Int. Cl. B 22c 9/00.

"A PROCESS FOR MAKING FOUNDRY CORES OR MOLDS".

Applicant: ACME RESIN CORPORATION, A Delaware corporation located at 1401 Circle Avenue, Forest Park, Illinois 60130 USA.

Inventor: ROBERT A. LAITAR.

Application No. 100/Mas/84, filed February 17, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A process for making foundry cores or molds which comprises:

mixing sand with a polyhydroxy compound such as herein described, a polyisocyanate and an organic phosphorous compound, to give a sand mixture,

placing the sand mixture into a suitable mold, and

curing the mold by passing a tertiary amine gas such as herein described through the sand mixture until the sand mixture cures to give a solid sand core or mold;

said polyisocyanate being selected from the group tolylene—2, 4—diisocyanate, tolylene—2, 6—diisocyanate, polymethylene polyphenylisocyanate and mixtures thereof, the amount of said polyisocyanate being sufficient to react substantially completely with the polyhydroxy compound and the total amount of polyhydroxy compound and polyisocyanate being from 0.7% to 4% by weight of the sand mixture;

Said organic phosphorous compound being selected from the group consisting of dichloroarylphosphines, chlorodialkylphosphines, arylphosphonic dichlorides, diarylphosphinyl chlorides, and mixtures thereof, wherein aryl is selected from the group consisting of phenyl, o—tolyl, m—tolyl, p—tolyl, o—methoxyphenyl, m—methoxyphenyl and p—methoxyphenyl, said organic phosphorous compound being present in an amount equal to from 0.02% to 3% by weight of the polyisocyanate.

Complete Specification 21 Pages)

(Drawing 1 Sheet)

CLASS. 71E.

159529

Int. Cl. E. 21 d 1/00.

"BUCKET—WHEEL EXCAVATOR".

Applicant: M.A.N. MASCHINENFABRIK AUGSBURG-NÜRNBERG AKTIENGESSELLSCHAFT, a German Company of Postfach 44 01 00, 8500 Nürnberg 44, West Germany.

Inventor: HARTMUT GRATHOFF.

Application No. 115/MAS/84 Filed February 21, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

17 Claims

A bucketwheel excavator for use in open-pit mining for the loosening and removal of material of great hardness and great strength or of highly abrasive material, e.g. sandstone, bituminous coal, tar sand, oil shale and similar abrasive materials, comprising:

a bucketwheel rotatable about a horizontal axis, having buckets provided with bucket backs and outer side walls and transverse and lateral cutting edges; and

a nozzle system, liquids being dischargeable under high pressure from orifices of nozzles for cutting seams into the material to be mined, said nozzle system including oscillating nozzles which can be oscillated back and forth each in a plane about an axis disposed at right angles to a particular bucket cutting edge, said oscillating nozzles being disposed on the outside of said bucket backs and on said side walls of said buckets, said oscillating nozzles being disposed in a clearance angle space, the clearance angle space in the case of oscillating nozzles provided on the said transverse cutting edges being the space between the bucket cutting circle and said bucket backs, and in the case of oscillating nozzles provided on the side of said lateral cutting edges, the clearance angle space being between said outer side walls and the surface that is engaged by a lateral cutting edge and is formed from the vectors resulting from the bucketwheel circumferential speed and the bucketwheel boom slewing speed, and said oscillating nozzles being set back from the associated cutting edge to such an extent that the liquid jets emerging from their orifices sweep the entire length of the associated cutting edge a short distance in front of it.

(Compln. Spen. 20 Pages)

(Drg. 7 Sheet)

CLASS. 34-B & C.

159530

Int. Cl. C 08 b 15/06.

PROCESS FOR PRECIPITATING CELLULOSE CARBAMATE FROM AN AQUEOUS ALKALI SOLUTION

Applicant: NESTE OY OF KEILANIEMI 02150, ESP00 15, FINLAND.

Inventors: 1. LEO MANDELL, 2. VIDAR EKLUND, 3. KURT EKMAN, 4. JOUKO HUTTUNEN 5. OLLI TURUNEN.

Application No. 7/Cal/83 filed January 1, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

Process for precipitating cellulose carbamate from aqueous alkali solution, characterized in that the solution is brought into contact with an aqueous solution of sulphuric acid containing 2—20% by weight of sulphuric acid and one or several cations selected from the group consisting of Al, Mg, Zn, and Ca cations and optionally further containing Na cation.

Compl. Specn. 9 pages.

Drg. Nil.

CLASS. 32-F₁(*)

159531.

Int. Cl. C 07 c 87/58.

PROCESS FOR PRODUCING PARAPHENYLENEDIAMINE MIXTURES.

Applicant: MONSANTO COMPANY, OF 800 NORTH LINDBERGH BOULEVARD, ST. LOUIS, MISSOURI 63167, UNITED STATES OF AMERICA.

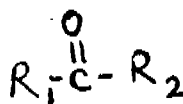
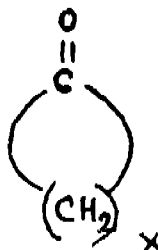
Inventors: 1. LEONA MARIE BACLAWSKI, 2. HELMUT LUDWIG MERTEN.

Application No. 67/Cal/83 filed January 17, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

10 Claims

In the process for preparing a mixture of two or more different N, N'-disubstituted paraphenylene-diamines by the reductive alkylation of a nitrogen-containing compound selected from 4-nitrodiphenylamine, 4-aminodiphenylamine, para-nitroaniline and phenylene diamine with two or more ketones selected from those shown in Figs. 1 and 2 of the accompanying drawings, wherein x is an integer of from 2 to 9 and



R_1 and R_2 are alkyl of 1 to 8 carbon atoms, with the proviso that the total number of carbon atoms in R_1 and R_2 together is nine or less, in the presence of hydrogen and a catalyst, the improvement which comprises charging the ketones sequentially and reacting each ketone essentially to completion before charging the next.

Compl. Specn. 15 pages.

Drg. 1 sheet.

CLASS : 172-C₂ & D₂ .

159532

Int. Cl. D 01 h 7/26.

AN IMPROVED FLYER FOR YARN OR THREAD WINDING DEVICE

Applicant : C. EUGEN MAIER METALLVERARBEITUNG GMBH, OF FRIEDRICH-LIST-STRASSE 41, 7012 FELLBACH, FEDERAL REPUBLIC OF GERMANY.

Inventor : KURT GALLINA.

Application No. 183/Cal/83 filed February 15, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

7 Claims

A flyer which is mounted at its head and wherein one of the wings has a swing arm (3) mounted on its wing (2) with at least one upper and lower bearing carrier or the like each, characterized in that each bearing carrier (4, 5) has a replaceable bearing bush (6, 7) for accommodating screws (12, 13) and bearing pin (18).

Compl. Specn. 10 pages.

Drg. 3 sheets

CLASS : 48-C.

159533

Int. Cl. : H 01 b 3/00.

INSULATED CONDUCTORS AND METHOD OF MAKING SAME.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTRE, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

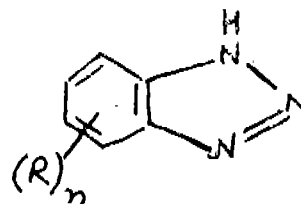
Inventors : 1. ANTHONY JAMES PALUMBO, 2. HENRY ALEXANDER PEARCE, JR. 3. CURTIS LOREN MOORE.

Application No. 226/Cal/83 filed February 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

10 Claims

An insulated conductor comprising a conductor having provided thereon a coating of one or more triazole of Formula I of the accompanying drawings.



where R is an alkyl group having 1—6 carbon atoms and n is 0—4, said coating having a thickness of 40 to 50 angstroms, and a coating of insulation over the triazole coating.

Compl. Specn. 7 pages.

Drgs. 2 sheets.

CLASS : 32-F₂ d.

159534

Int. Cl. : C 07 d 5/06.

PROCESS FOR THE MANUFACTURE OF OPTICALLY ACTIVE γ -LACTONE OF (1R, CIS)-2, 2-DIMETHYL-3-HYDROXYMETHYL CYCLOPROPANE-1-CARBOXYLIC ACID.

Applicant : IEL LIMITED FORMERLY KNOWN AS INDIAN EPLOSIVES LIMITED, OF ICI HOUSE, 34 CHOWRINGHEE ROAD, CALCUTTA-700 071, WEST BENGAL, INDIA.

Inventors : 1. DR. ARUN KANTI MANDAL, 2. SHAILENDRA RATANCHAND BHANDARI, 3. SATISH WASUDEO MAHAJAN.

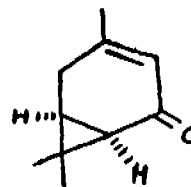
Application No. 294/Cal/83 filed March 10, 1983.

Complete Specification left on December 17, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

9 Claims

A process for the manufacture of optically active γ -lactone of (1R, cis)-2, 2-dimethyl-3-hydroxymethyl cyclopropane-1-carboxylic acid which comprises the step of oxidising optically active (—) car-3-en-5-one of the formula VII of the accompanying drawings.

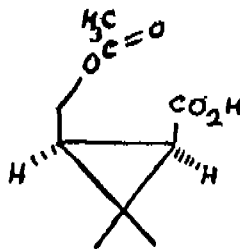


with one or more oxidants of the kind such as herein described to form optically active (—)-(1R, cis)-2, 2-dimethyl-3-(2-oxopropyl)-cyclopropane-1-carboxylic acid of the formula IX of the drawings,



oxidising the acid of the formula IX so produced by the Bayer-villegar reaction as described herein to form (1R,

cis)-2, 2-dimethyl-3-(acetoxyethyl)-cyclopropane-1-carboxylic acid of the formula X of the drawings



20

and hydrolysing the acid of the formula X to form the desired optically active β -lactone.

Provisional Specn. 4 pages.

Drg. 1 sheet.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 128-G & H.

159535.

Int. Cl. : A 61 f 5/46.

TUBULAR PESSARY HAVING A CONTRACEPTIVE ACTION.

Applicant : MED INVENTIO AG, OF SEESTR 359, CH-8038 ZURICH-WOLLISHOFEN, SWITZERLAND.

Inventor : 1. JACQUES HAMOU.

Application No. 316/Cal/83 filed March 15, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A tubular pessary for reversible contraception by obturating the isthmian channel, wherein the device has a sensitive, cylindrical central part made from medically inactive material, whose distal end and proximal end are provided with outwardly springing and spreading filamentary attachments.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 139-A.

159536.

Int. Cl. C 01 b 31/06.

IMPROVED PROCESS FOR MAKING A SINTERED HIGH STRENGTH POLYCRYSTALLINE ABRASIVE COMPACT.

Applicant : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. PAUL DONALD GIGL, 2. HYUN SAM CHO.

Application No. 345/Cal/83 filed March 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

An improved process for making a sintered high strength polycrystalline abrasive compact such as diamond compact or cubic boron nitride compact comprising subjecting a mass of abrasive particles such as diamond or cubic boron nitride particles, which mass is in contact with a source of known catalyst for diamondrecrystallization or sintering of cubic boron nitride to a high pressure/high temperature process which results in a compact characterized by diamond-to-dia-

mond bonding or a polycrystalline mass having at least 70 volume percent cubic boron nitride content and containing an interstitial metal phase comprising the catalyst; wherein the improvement comprises placing in contact with the mass of abrasive particles an additional metal or metal alloy selected from the group consisting of :

(a) single metal of which : (1) has a lower melting point than the catalyst; (ii) does not interfere with the function of the catalyst; and (iii) is miscible with the catalyst; and

(b) alloys of metal as described in (a) above, which alloys do not interfere with the function of the catalyst, optionally when desired removing substantially all of the metal phase from the compact.

Compl. Specn. 13 pages.

Drg. 6 sheets.

CLASS : 32-F₃ c

159537

Int. Cl. C 07 c 127/00.

PROCESS FOR THE PREPARATION OF UREA.

Applicant : UNIE VAN KUNSTMESTFABRIEKEN B.V., OF MALIEBRAAN 81, P.O. BOX 45, 3500 AA UTRECHT, THE NETHERLANDS.

Inventors : 1. KEES JONCKERS, 2. PETRUS JOHANNES MARIE VAN NASSAU, 3. ANDREAS JOHANNES BIERMANS.

Application No. 520/Cal/83 filed April 28, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

In a process for the preparation of urea from carbon dioxide and an excess of ammonia at an elevated temperature and pressure in a urea synthesis zone to form an aqueous urea synthesis solution containing urea, ammonium carbamate, and excess ammonia, and thereafter :

stripping said urea synthesis solution in a stripping zone at an elevated pressure with a first stripping gas selected from the group consisting of carbon dioxide, ammonia inert gas, and mixtures thereof, thereby decomposing ammonium carbamate and separately removing a stripping zone off-gas containing ammonia, carbon dioxide, and water vapor from a first urea solution still containing residual ammonium carbamate;

at least partially condensing said stripping zone off-gas in a first condensation zone to form a first ammonium carbamate solution;

introducing said first urea solution into a decomposition zone at a reduced pressure relative to a said stripping zone wherein a further portion of ammonium carbamate is decomposed and separately removing a decomposition zone off-gas containing ammonia, carbon dioxide, and water vapor, and a second urea solution;

further processing said second urea solution in a further processing zone to form a concentrated urea solution or solid product; and

condensing said decomposition zone off-gas in a second condensation zone to form a second ammonium carbamate solution;

the improvement comprising :

introducing a portion of said second ammonium carbamate solution into desorption zone wherein a desorption zone off-gas more concentrated with respect to ammonia and carbon dioxide than said second ammonium carbamate solution is separately removed from a residual liquid phase;

condensing said desorption zone off-gas into a further portion of said second ammonium carbamate solution in a third condensation zone maintained at a pressure between the pressure in said decomposition zone and about 40 bar to form a third ammonium carbamate solution; and

recycling said third ammonium carbamate solution to said urea synthesis zone.

Compl. Specn. 33 pages.

Drg. 2 sheets.

CLASS : 146-D₁, s; 167-C.

159538.

Int. Cl : C 12 b 1/26; C 12 k 1/00+ 1/04 plus 1/06 plus 9/00.

AN APPARATUS FOR SEPARATING SELECTED BIOLOGICAL CELLS FROM OTHER SUCH CELLS.

Applicant : BAR-ILAN UNIVERSITY, OF RAMAT-GAN, ISRAEL.

Inventors : 1. ARYE WEINERB, 2. MORDECHAI DEUTSCH.

Application No. 564/Cal/83 filed May 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

Apparatus for separating selected biological cells from other such cells, which comprises at least one optionally supported substantially planar carrier of preselected thickness, which carrier defines upper and lower surfaces and comprises an ordered array of apertures therethrough, said apertures having a preselected configuration with preselected dimensions at the top and bottom surfaces, definable at top and bottom dimensions, respectively, whereby when biological cells are disposed on said top surface, only selected cells of pre-selected dimensions are held substantially within the apertures with substantially one cell per aperture, the top dimension of each aperture being larger than the smallest internal cross-sectional dimension and both the thickness of said carrier and the top dimensions of the carrier being of the order of the diameters of the selected cells.

Compl. Specn. 52 pages.

Drg. 12 sheets.

CLASS : 32-E; 152-E.

159539.

Int. Cl. C 08 f 19/00, 29/00, 37/00, 45/00, 47/00; C 08 g 39/00, 41/00, 43/00, 45/00, 51/00, 53/00.

A FOAMABLE AND CURABLE COMPOSITION.

Applicant : PENNWALT CORPORATION, OF PENN-WALT BUILDING, THREE PARWAY, PHILADELPHIA, PENNSYLVANIA 19102, UNITED STATES OF AMERICA.

Inventor : 1. ERNEST RADOLPH KAMENS.

Application No. 642/Cal/83 filed May 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A foamable and curable composition comprising

(i) 100 parts of weight of a medium which is polymerizable and/or crosslinkable by free radical initiation;

(ii) 0.2 to 20 parts by weight of a peroxide;

(iii) 0.01 to 2.0 parts by weight of at least one transition metal salt promoter where at least one of the metals is selected from the class of iron and copper; and

(iv) 0.2 to 10 parts by weight of a t-alkylhydrazinium salt blowing agent.

Compl. Specn. 42 pages.

Drg. 1 sheet.

159540.

CLASS : 27I, 71 B & 131B4.

Int. Class : E 02d, 17/02, 17/04 & 17/144.

AN IMPROVED BORING AND SKIRTING DEVICE FOR MAKING SKIRTING TYPE FOUNDATIONS IN CIVIL ENGINEERING WORKS.

5-77 GI/87

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : JADISH PRASAD KAUSHISH, DINESH KUMAR GAUTAM, MALUK SINGH KALRA, BHAGWAN GOVIND RAO AND MANOHAR LAL SONI.

Application for Patent No. 179/DEL/1982 filed on 4th March, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

4 Claims

An improved boring and skirting device, for making skirting type foundations in civil engineering works, mounted on a movable trolley (8) provided with steering arrangement and a set of telescopic levelling screw pads (18) comprising of a helical auger cutter for making bore holes mounted at the lower end of a cutter shaft (23), a power head having a prime mover (21) and a speed reducer (22), the entire assembly is enclosed within a tiltable boom (3) which is hinged with vertical side supports (2) at two hinge points (4) and wire of a mechanical pulling means (7A) attached to the bottom of said boom, to tilt the boom in a desired vertical or horizontal position and vice versa, the said vertical side supports being rigidity mounted at the front end of the said moveable trolley, fitted with a winch (28) characterised in that the power head is mounted at the top end of the cutter shaft which is enclosed in a casing pip, rigidly mounted to the bottom of the said speed reducer and having a helical auger guide (35) to maintain the cutter shaft concentric with the casing pipe and a punching head fixed at the lower end of the casing pipe.

(Provisional Specification 10 pages)

Compl. specn. 25 pages

Drg. 2 sheets

CLASS : 49 EBH, 97 F. 98 I.

159541.

Int. Class : F24j 3/02.

"A MODIFIED SOLAR COOKER".

Applicant : MOHAMMAD MANSURUL HODA and APPROPRIATE TECHNOLOGY DEVELOPMENT ASSOCIATES, of P.O. Box No. 311, Gandhi Bhawan, Lucknow-226 001, Uttar Pradesh, India, of Indian nationality.

INVENTOR : MOHAMMAD MANSURUL HODA.

Application for Patent No. 604/DEL/1982 filed on 6th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A modified solar cooker which in addition to its ability to function during sunlight hours is adapted also to operate when there is no direct sunlight and even at night, said solar cooker comprising a box provided internally with an insulating lining, a lid hingedly mounted on said box the inner surface of which comprises a reflector mirror, a plurality of predetermined hollow portions set in a black tray located within said box and adapted to receive cooking pots, a double glass sheet also hingedly mounted on said box intermediate of said pots and said lid, at least a pair of electric bulbs each capable of generating 100 watts per hour provided within said box and a sheet of conducting material removably provided within said box above said cooking pots and said bulbs, said conducting sheets lying intermediate of said pots and said double glass sheet when the cooker is in operation.

Complete Specification 8 pages

Drawing one Sheet.

Provisional Specification 5 pages.

CLASS : 148B. 146 [D₁+D₂] 159542

Int. Class : G 03b 3/00, 35/00, 17/17 and G 02b 27/22.

"AN ATTACHMENT FOR USE WITH A SINGLE LENS CAMERA FOR PHOTOGRAPHING STEREOSCOPIC PICTURES."

Applicant : SATYENDRA NARAYAN MATHUR, an Indian national of 736, Sector 3, R. K. Puram, New Delhi-110066, India.

Inventor : SATYENDRA NARAYAN MATHUR.

Application for Patent No. 637/DEL/1982 filed on 21st August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An attachment for a single lens camera for photographing stereoscopic pictures comprising a first mirror and a second mirror, spaced from the first mirror, having one of its sides in line with the optical axis of the lens of the camera such as permitting direct rays of light from the object to reach on the film or the plate provided in the camera, and the second mirror being inclined at an angle such that the rays of light coming from the object on the second mirror are reflected to the first mirror and again reflected from the first mirror to the film or the plate, to produce the second image of the object to result in two different pictures side by side.

Complete Specification 8 pages Drawing one Sheet.

CLASS : 98 G E. 159543.

Int. Class : A47j 36/24, 39/02.

"A HEATING DEVICE FOR HEATING LIQUID AND SOLID PRODUCTS".

Applicant : POZEL S.A., a company duly organized under the laws of Switzerland, residing at Grand Rue 56, 1700 Fribourg, Switzerland.

Inventors : CONRAD ZELLWEGER AND VICTOR CHARLES SPRETER.

Application for Patent No. 792/DEL/1982 filed on 30th October '82.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi 110005.

20 Claims

A heating device for heating liquid and solid products comprising a container structure and heating means located at the base of the container structure, said heating means comprising a heating element including a supply of exothermic gas-less combustible material characterized in that said heat element consists of a flat tile like three-layer element comprising a first heat spreading layer made of heat conducting material, a second, intermediate layer composed of said exothermic gasless combustible material, and a third layer made of heat insulating incombustible material, ignition means being in operable contact with said combustible material through an opening in at least one of said first and second layers encasing the combustible material and, said heating element further comprising walls arranged throughout said second layer and dividing said combustible material to define at least one fire path extending from said opening for said ignition means.

Complete Specification 16 pages Drawing 4 Sheets.

CLASS : 141 D, 85 P. 159544.

Int. Class : F27b 21/00.

"A SUCTION SINTERING APPARATUS".

Applicants : OJLE BOSTROM, of Swedish nationality, of Slottsvagen 83, S-183 52 Taby, Sweden and KARL GORAN GORLING of Swedish nationality, of Kullavagen 23, S-181 62 Lidings, Sweden.

Inventors : OJLE BOSTROM AND KARL GORAN GORLING.

Application for Patent No. 888/DEL/1982 filed on 2nd December 1982.

Convention date 18-12-1981/392,677 (CANADA).

4 Claims

An apparatus suitable for producing a charge of high permeability and stable structure on a mobile suction-sintering grate or in a stationary or mobile suction-sintering pan, including roll pairs having pressure-loaded, smooth or only shallowly grooved rolls for compacting a moist material mixture to be sintered, to form cakes, the particles forming said cakes being held together mainly by capillary forces, and which cakes are then broken into separate pieces, wherein said apparatus comprises two roll pairs arranged back-to-back so that the infeed sides of respective roll pairs face each other, and a feeding equipment for material mixture which is common to both roll pairs.

Complete specification 7 pages Drawing 1 sheet.

CLASS : 203; 111 159545

Int. Class : B 65 c—9/00; B 65 h—17/00, 17/52.

"A FEED DEVICE FOR LABELS."

Applicant(s) : G.D. SOCIETA' PER AZIONI, of Via Pomponia, 10, 40100, Bologna, Italy, an Italian company.

Inventor(s) : ENZO SERAGNOLI and RICCARDO MATTEI.

Application for Patent No. 895/DEL/1982 filed on 8th December 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A device for feeding labels, in particular country stamps or sealing strips, to a utiliser machine, in particular a cigarette packaging machine, characterised by the fact that it comprises, in combination, a support body, an advancement track for a continuous strip of labels extending along the said support body, said track comprising a first and a second portion aligned with one another in a direction of advance of said strip and separated from one another by a slide mounted on the said support body in a position adjacent the said track and movable with a reciprocating movement along it, an advancement device carried by the said slide and operable to cooperate with the said strip to cause advancement thereof along said first portion of the said track, a hollow shaft carried rotatably by the slide and operable to turn with a reciprocating movement about its axis in a predetermined phase relation with the movement of the said slide, a cutting element supported by the said support body in a position adjacent the said slot and rotatable about its axis with a predetermined phase relation with the movement of the said slide, and two auxiliary units selectively connectable to the said support body in a position facing the said slot; a first of the said units including a fixed cutting element facing the said slot and having a cutting edge tangential both to the said track and to the path of the said rotary cutting element and a second of said units including a fixed magazine for labels facing the said slot and a rotary extractor element for the said labels keyed on the said hollow shaft and movable with said hollow shaft in the space between one end of said magazine and the said track; the said extractor element communicating with a suction device by means of the said hollow shaft.

Complete specifications 15 pages Drawings 3 Sheets

CLASS : 147 C & 148 H

159546

Int. Cl. : H04n 5/78 & G11b 5/00.

MAGNETIC RECORDING APPARATUS IN COMBINATION WITH A VIDEO CAMERA.

Applicant : SONY CORPORATION, OF 7-35, KITASHINGAWA 6-CHOME, SHINGAWA-KU, TOKYO, JAPAN, A JAPANESE COMPANY.

Inventors : SEIJI SATO & KOICHI TAKEUCHI.

Application for Patent No. 910/Del/82 filed on 13th December, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch New Delhi-110005.

6 Claims

A helical scan type magnetic recording apparatus in combination with a video camera, said combination being constructed integrally as a unit, with the video camera supplying a video signal to at least one rotary magnetic head of said apparatus to record said video signal on said magnetic tape, said apparatus having a rotary magnetic head, said at least one head including a first recording gap at another, different predetermined azimuth angle, said first and second gaps being separated from one another by a predetermined spacing and used alternatively for recording said video signal in alternate slant tracks on the magnetic tape, said at least one head being disposed on a reduced-size head drum of a diameter D_2 about which said magnetic tape is wound for a wrapping angle α wherein α is an angle between the portion in which the tape becomes to contact with the reduced-size head drum (3) and the portion in which the tape becomes to separate from the drum (3) at a still angle Q_2 with respect to the circumferential tracking line of the rotary head H on the reduced-size head drum (3) for recording of fields of said video signal with a vertical synchronizing signal having a standard vertical synchronizing frequency f_v in said slant tracks on the tape arranged at a recording angle O_1 with respect to the longitudinal direction of the tape when the tape is advanced at a tape running speed V_1 with the length of the tracks being $1/N$ such that the recorded tape is compatible with standard video playback apparatus having a standard-size rotary drum of diameter D_1 , greater than the diameter D_2 , and with the tape being wrapped thereabout for a wrapping angle of substantially 180° and at a still angle of Q_1 with respect to the circumferential tracking line of the rotary head H_A on the standard-size rotary drum (1) with the video signal reproduced from said tape having the standard vertical synchronizing frequency f_v and a standard horizontal scanning frequency f_H , characterised in that the apparatus includes a delay circuit having a delay means 37 connected to said video camera delaying said vertical synchronizing signal and the associated field of the video signal for alternate fields thereof by an amount corresponding to the predetermined spacing between said first and second recording gaps and said diameter D_2 of the reduced size head drum is selected to satisfy the equation

the tape is wrapped about the reduced-size guide drum at a still angle of Q_2 selected to satisfy the equation

$$Q_2 = \arcsin \left(\frac{180^\circ}{\alpha} \frac{D_1}{D_2} \sin Q_1 \right)$$

the video signal to be recorded by the apparatus having the reduced-size guide head has a non-standard horizontal scanning frequency f_H selected to satisfy the equation.

$$f_H = \frac{360^\circ}{\alpha} f_v$$

Compl. specn. 27 pages.

Drg. 5 sheets

CLASS : 47 C, 116 B

159547

Int. Cl. : F27d 3/00, 23/00, C10b 7/00, 31/00, 45/00.

A LARRY CAR FOR TRANSPORTING A CHARGE OF PRE-HEATED COAL.

Applicant : OTTO-SIMON CARVES LIMITED, A BRITISH COMPANY OF EUROPE HOUSE, BIRD HALL LANE, CHEADLE HEATH, STORKPORT, CHESHIRE, ENGLAND.

Inventor : DAVID BRIAN CORRY.

Application for Patent No. 928/Del/1982 filed on 21st December, 1982.

Convention date 30-12-1981/81 39022/(Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch New Delhi-110005.

7 Claims

A larry car for transporting a charge of pre-heated coal along the top of a battery of coke ovens from a storage installation including a group of metering bins at one or more filling stations above the battery, to a corresponding group of charge holes in the top of each individual oven chamber to be charged, the larry car including a corresponding group of coal-transfer hoppers each having valved inlet and discharge apertures at the upper and lower ends respectively and characterised by means to establish a sealed connection, when the larry car is at said one or more filling stations, between the valved inlet of each hopper and the interior of said storage installation, means for supplying an inert medium such as herein described to the interior of each hopper when the larry car is over an oven being charged, such that the inert medium displaces the coal discharged, and a plurality of valves on the larry car and the control means therefor to maintain continuous isolation of the interior of each hopper from the atmosphere.

Compl. specn. 11 pages.

Drg. 1 sheet

CLASS : 190 C

159548

Int. Cl. : F04d 25/00.

HORIZONTAL AXIS TURBINE OR TURBINE-PUMP HAVING AN AUTOMATIC CLOSING DEVICE IN A HYDROELECTRIC POWER STATION.

Applicant : NEYRPIC, A FRENCH COMPANY OF 75 RUE DUE GENERAL MANGIN, 38100 GRENOBLE, FRANCE.

Inventor : PAUL MOREL.

Application for Patent No. 31/Del/83 filed on 18th January, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch New Delhi-110005.

2 Claims

A horizontal axis turbine or turbine-pump having an automatic closing device in a hydroelectric power station, said turbine or turbine-pump having feed-tank connected to a predistributor which is in communication with a movable distributor in turn in communication with a wheel of the turbine or turbine-pump, said automatic closing device comprising a cylindrical gate valve having an axis coaxial with the axis of the turbine or turbine-pump, said cylindrical gate valve being provided slidably between said predistributor and said movable distributor of said turbine or turbine-pump, the cylindrical gate valve being connected to a single-acting jack and a counterweight or spring through rods and linkages for automatic closing of said valve in the event of a loss of oil pressure in the jack.

Compl. specn. 5 pages.

Drg. 2 sheets

CLASS : 146 D₁ & a

159549

Int. Cl. : G201 b, 11/30.

APPARATUS FOR THE CHARACTERISATION OF A SURFACE COATING FILM.

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC., OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3 JF, ENGLAND, A BRITISH COMPANY.

Inventors : STANLEY ERNEST ORCHARD CELIA CHARLOTTE TAYLOR.

Application for Patent No. 54/Del/83 filed on 28th Jan., 1983.

Appropriate office for filing opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Branch New Delhi-110005.

12 Claims

An apparatus for the characterisation of a surface coating film containing metallic flake pigment which comprises a light-tight enclosure, a support within said enclosure for supporting the film to be characterised, a lamp provided in said enclosure with one or more lenses provided in relation to said lamp for focussing light therefrom into a parallel beam of incident light directed towards said film at a given angle to the normal with respect to the film surface whereby said film is illuminated, means for receiving light reflected from an area of the film surface lying wholly within said illuminated area, said light-receiving means being provided within said enclosure at a plurality of different azimuthal viewing positions located in a circle lying in a plane parallel to said film surface and through the centre of which the normal to the film at a point within said illuminated area passes, and means connected to said light-receiving means for measuring the light received.

Compl. specn. 20 pages.

Drg. 3 sheets

CLASS : 129-G

159550

Int. Cl. : B21 c 25/02.

IMPROVEMENTS IN OR RELATING TO THE FORMING OF EXTRUSION DIES.

Applicant : HOBSON PROCESS LIMITED, OF 20 CLEVEMOUNT ROAD, CHELTENHAM, GL52 3HG, ENGLAND.

Inventors : 1. DAVID EDWARD STEWART, 2. GEORGE RICHARD NICHOLSON.

Application No. 663/Cal/83 filed May 25, 1983.

Convention date 25th May, 1982 (82 15216) U.K.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

9 Claims

Improvement in a method of forming an extrusion die comprising forming an extrusion aperture in a die piece and then reshaping the extrusion aperture by removal of die material so that the axial bearing depth of the extrusion aperture is different in different locations around its periphery in order to provide substantially uniform flow of material subsequently extruded through the die, characterised in that, after the initial formation of the extrusion aperture, a flowable material is forced sufficiently into the extrusion aperture to establish a deformation profile of the leading surface of the material in the extrusion direction, the subsequent reshaping of the extrusion aperture by removal of die material being such that the axial bearing depth of the extrusion aperture at any location around its periphery is determined by the difference in distance between the profile of entry and said deformation profile at the location.

Compl. specn. 14 pages.

Drg. 1 sheet

CLASS : 9-D₄; 172-C₄

159551

Int. Cl. : D01 h 5/00, 5/86.

DRAFTING MECHANISM FOR A SPINNING MACHINE.

Applicant : MASCHINENFABRIK RIETER AG., OF WINTERTHUR, SWITZERLAND.

Inventor : 1. ARTHUR WUERMLI.

Application No. 716/Cal/83 filed June 6, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

5 Claims

Drafting mechanism for a spinning machine with a preliminary and a main drafting zone, an infeed roller pair comprising an upper and a lower roller, an exit roller pair comprising an upper and lower roller and an upper apron and a lower apron driven by an apron roller pair, the preliminary drafting zone extending between the infeed roller pair and the nip line formed by the apron rollers pressed on the upper and lower aprons and the main drafting zone extending between this nip line and the exit roller pair, and a lower apron extending under the preliminary drafting zone and the lower infeed roller, characterised in that in operation of the drafting mechanism the lower apron (17) is in grazing contact with this lower infeed roller (12) and that the lower run of the lower apron (17) is in a loose condition.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 70-B

159552

Int. Cl. : B01 k 3/02.

CATHODE FOR ELECTROLYSIS OF ACID SOLUTION AND PROCESS FOR THE PRODUCTION THEREOF.

Applicant : PERMELEC ELECTRODE LTD., OF 1159, ISHIKAWA, FUJISAWA-SHI, KANAGAWA, JAPAN.

Inventors : 1. HIROSHI ASANO, 2. TAKAYUKI SHIMAMUNE, 3. TOSHIKI GOTO, 4. MASASHI HOSONUMA.

Application No. 717/Cal/83 filed June 6, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

8 Claims

A cathode for electrolysis of acid solutions, comprising an electrically conductive substrate coated with a sprayed coating layer, said sprayed coating layer containing at least 10% by weight of W, WC or a mixture thereof; the said coated electrically conductive substrate being finally impregnated with an impregnated coating layer which is prepared by providing a mixture of a cathode active substance of a powder of a member selected from the group consisting of Pt, Rh, Pd, Ru, and Ir, and their alloys, oxides, and mixtures thereof, in an amount of 10 to 90% by weight, and an acid-resistant fluorine-based resin in an amount of 90 to 10% by weight, on the external surface of the sprayed coating layer (b).

Compl. specn. 20 pages.

Drg. Nil.

CLASS : 107-G

159553

Int. Cl. : F16 m 1/00.

A RADIAL INFLOW TURBINE HOUSING FOR TURBOCHARGERS AND THE LIKE.

Applicant : ROTO-MASTER, INC., OF 7101 FAIR AVENUE NORTH HOLLYWOOD CALIFORNIA 91605, UNITED STATES OF AMERICA.

Inventor : 1. HUGH MACLNNES.

Application No. 742/Cal/83 filed June 14, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Calcutta.

3 Claims

A radial inflow turbine housing for turbochargers and the like defining an inlet, an outlet located radially interiorly from said inlet, a centrally located turbine wheel cavity, and volute passageway means encircling said turbine wheel cavity and extending in and diminishing in cross-sectional area from said inlet to terminate at said cavity wherein the improvement comprises in combination an interior divider of scroll and configuration extending from said inlet to bifurcate said passageway means into axially adjacent passages over an arc of between about 180° and 300°, and an exit port communicating with said passageway means beyond the terminus of said divider.

Compl. specn. 13 pages.

Drg. 1 sheet

CLASS : 110; 155-C

159554

Int. Cl.: D 04 b 9/00.

METHOD AND APPARATUS FOR MAKING KNOTTED RUGS.

Applicant : MADAG MASCHINEN-UND APPARATEBAU DIETIKON AG., OF POSTSTRASSE 45, 8953 DIETIKON, CANTON OF ZURICH, SWITZERLAND.

Inventor : 1. STEPHAN ROSENBERG.

Application No. 787/Cal/83 filed June 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

A method of making rugs by knotting, a knotting apparatus being transported by a drive mechanism over canvas fixed on a canvas holder, and feed means being provided for the knotting yarn, wherein cam plates are set in rotation by means of the drive mechanism for actuating the various tools for carrying out the knotting operation, the yarn to be knotted being pulled into the knotting zone by means of a first yarn-transport means, the yarn being conveyed into the region of a needle by means of a second yarn-transport means, the needle pushed through the canvas and a piece of yarn cut off, whereupon the piece of yarn is conveyed by both ends through the needle aperture by a third yarn transport means, and the needle is pulled back in order to form a knot.

Compl. specn. 21 pages.

Drg. 19 sheets

CLASS : 15-B & D

159555

Int. Cl. : F 16 c 33/72.

IMPROVED SEALING DEVICE FOR PROVIDING A SEAL BETWEEN TWO RELATIVELY ROTATABLE COMPONENTS.

Applicant : SKF (U.K.) LIMITED, OF SUNDON PARK ROAD, LUTON, BEDFORDSHIRE, ENGLAND.

Inventors : 1. KEITH WILLIAM WOODBRIDGE, 2. DERICK GUSTAV HJERTZEN.

Application No. 816/Cal/83 filed June 30, 1983.

Convention date 30th June, 1982 (82 18855) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims

An improved sealing device for providing a seal between two relatively rotatable components, comprising two co-axial members and an annular brush screen disposed between the two members and in contact with annular sealing surfaces on the members, the filaments of the brush screen being arranged to be compressed transversely between the two annular sealing surfaces upon relatively axial movement of the members towards one another, so that the filaments are forced against one another to provide a filter barrier between the annular sealing surfaces.

Compl. specn. 17 pages.

Drg. 3 sheets

CLASS : 47-C

159556

Int. Cl. : C 10 b 25/16.

IMPROVEMENTS IN AND RELATING TO A COKE OVEN DOOR.

Applicant : FIRMA CARL STILL GMBH & CO. KG., OF 4350 RECKLINGHAUSEN, POSTFACH 101851, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. KURT LORENZ.

Application No. 826/Cal/83 filed July 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims

A coke oven door comprising a metal sealing strip one portion of which engages an edge portion of the door and is held in place against the door by a clamping mechanism which is adjustable to allow outward movement of another portion of the strip relative to the door, the other portion being in the form of or provided with a sealing blade for sealingly engaging the door frame, wherein the sealing strip is of laminate construction composed of a plurality of thin layers or lamellae.

Compl. specn. 16 pages.

Drg. 4 sheets

CLASS : 85-K & S + 88-D

159557

Int. Cl. : F 23 j 5/00; F 23 n 1/00, 3/00, 5/00.

A COAL FIRED FURNACE FOR EXAMPLE FURNACE OF A STEAM GENERATOR.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : 1. RALPH DAVID WINSHIP.

Application No. 832/Cal/83 filed July 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A coal fired furnace for example a furnace for a steam generator comprising means for conveying pulverized coal in an air stream towards the furnace, two pipes separating the said stream into two portions one a fuel rich portion and the other a fuel lean portion, means for introducing the fuel rich portion air stream into a first or lower zone, means for introducing air into the first or lower zone in the furnace in a quantity insufficient to support complete combustion of all the fuel in fuel rich portion of air stream, means for introducing the fuel lean portion of air stream into a second or upper zone in the furnace and means for introducing air into the second zone in a quantity sufficient to support complete combustion of all the fuel in both the fuel rich portion and the fuel lean portions of the air stream, the peak temperature within the furnace being thereby lowered and formation of NOx and SOx in the combustion gases minimized.

Compl. specn. 7 pages.

Drg. 2 sheets

CLASS : 33-A

159558

2 Claims

Int. Cl. : B 22 d 17/32.

METHOD FOR PRESSURE DIECASTING.

Applicant : INSTITUTE PO METALOZNANIE I TECHNOLOGIA NA METALITE, 53, CHAPAEV STREET, SOFIA, BULGARIA.

Inventor : 1. IVAN DIMOV NIKOLOV.

Application No. 850/Cal/83 filed July 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

Appressure die-casting method in which melt from a molten metal reservoir is delivered and fills the casting die under the action of a difference in pressures created in the molten metal reservoir and the casting die, characterized in that, during the process of filling the casting die with melt in the unfilled cavity of the casting die, a high pressure source such as herein described and illustrated in the accompanying drawings, created an additional gas pressure which is equalized by a counter acting pressure created on the other side of the casting die.

Compl. specn. 10 pages.

Drg. 4 sheets

CLASS : 108-B₁ & s(b)

159559

Int. Cl. : C 21 b 13/14.

METHOD OF CONVERTING IRON ORE INTO MOL-TEN IRON.

Applicant : HYLSA, S.A., OF APDO, POSTAL 996, MONTERREY, N.L. MEXICO.

Inventors : 1. RICARDO VIRAMONTES BROWN, 2. JORGE DOMINGO BERRUN CASTANON.

Application No. 856/Cal/83 filed July 11, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A method for producing molten iron from iron ore characterized by supplying said ore in lump or pellet form to a vertical shaft, moving bed reduction reactor, passing a hot reducing gas upwardly through said moving bed to reduce said ore to sponge iron, establishing a bath of molten iron in a melter-gasifier; characterised by : preparing a finely ground mixture of coal and said sponge iron, feeding the ground mixture to said molten bath, feeding elemental oxygen to said bath to react with the coal of said mixture to maintain said bath molten and to produce a reducing gas, utilizing at least a part of the reducing gas thus produced as the reducing gas passed through said moving bed of ore and withdrawing molten iron from said melter-gasifier.

Compl. Specn. 14 pages.

Drg. 1 sheet.

Class 128 A.

159560.

Int. Class A61f 15/00 & A61 1300.

"A PROCESS FOR THE PREPARATION OF A SURGI-CAL DRESSING."

Applicant : THUNGUNTLA JAI MANGAL SINHA AND PADMA VASUDEVAN BOTH INDIAN NATIONALS OF INDIAN INSTITUTE OF TECHNOLOGY, HAUZ KHAS, NEW DELHI-110016, INDIA.

Inventors : THUNGUNTLA JAI MANGAL SINHA AND PADMA VASUDEVAN.

Application for patent No. 50/Del/83 filed on 28th Jan-uary, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5,

A process for the preparation of a surgical dressing as here-in defined which comprises in forming an adduct by reacting an antimicrobial agent such as acriflavin, bactracin and neo-mycin with 2, 3 diadehyde cellulose and applying the said adduct onto a bandage or on a pad of a sticking plaster by a conventional method.

Complete specification 8 pages.

Drawing 1 sheet.

Class 106 [XLVII(2)].

159561.

Int. Class : B28b, 1/24.

APPARATUS FOR THE INJECTION OF METERED AMOUNTS OF PULVERIZED MATERIALS BY PNEU-MATIC MEANS AT A PLURALITY OF DIFFERENT POINTS INTO A VESSEL.

Applicant : PAUL WURTH S.A., OF 32, RUE D' ALSACE, LUXEMBOURG, GRAND DUCHY OF LUXEMBOURG, A COMPANY ORGANISED UNDER THE LAWS OF LUXEMBOURG.

Inventor : ULVELING LEON.

Application for Patent No. 130/DEL/83 filed on 2nd March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

Apparatus for the injection of metered amounts of pulveri-zed materials by pneumatic means at a plurality of different points into a vessel which is under variable pressure, through a plurality of pneumatic conveyance paths supplied with pulverized materials in a stream of pressurized propellant fluid, comprising in combination.

(a) Means for injecting said pulverized materials and said fluids into the vessel,

(b) Variable metering means for delivering metered amount of said pulverized materials into the vessel,

(c) Means for monitoring losses of predetermined pressure for each said conveyance paths between an initial point and a point of injection of the pulverized material into the vessel,

(d) Means for varying the amount of pulverized material delivered to the fluid stream in accordance with changes in pressure in the vessel; and

(e) Means for maintaining in each conveyance path a constant pressure loss between the initial point and the point of injection in accordance with the amount of pulverized material to be injected into the vessel.

(Complete specification 19 pages)

Drawing 2 sheets.

Class 32, F.

159562.

Int. Class CO7d—27/00, 29/00.

PROCESS FOR THE PREPARATION OF HERBICIDAL COMPOUNDS.

Applicant : VELSICOL CHEMICAL CORPORATION OF 341 EAST OHIO STREET CHICAGO, ILLINOIS 60611. UNITED STATES OF AMERICA, A CORPORATION OF THE STATES OF DELAWARE.

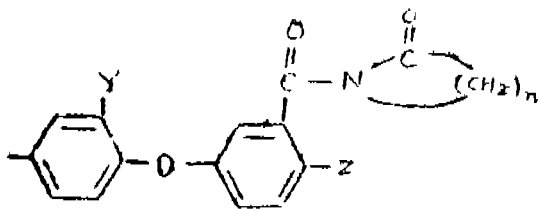
Inventors : LEONARD JOSEPH STACH AND FRANK WU.

Application for Patent No. 263/Del/1983 filed on 21st April, 1983.

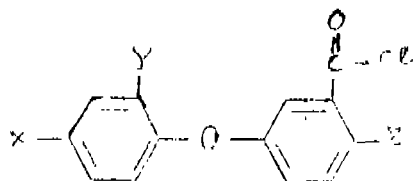
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

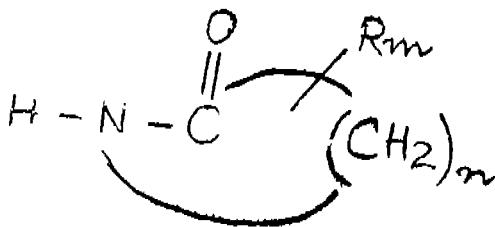
The process for the preparation of the compounds of the general formula I



of the accompanying drawings wherein X is halogen or trifluoromethyl; Y is hydrogen, halogen or cyano; Z is halogen, cyano or nitro; R is alkyl; m is an integer from 0 to 6 and n is an integer from 3 to 5 comprising reacting a compound of the formula II



of the drawings wherein X is halogen or trifluoromethyl; Y is hydrogen, halogen or cyano; Z is halogen, cyano or nitro, with a compound of the formula III



of the drawings wherein R is alkyl, m is an integer from 0 to 6 and n is an integer from 3 to 5 in the presence of an aromatic solvent and an acid scavenger.

Complete specification 19 pages.

Drawing 1 sheet.

Class 42 A.

159563.

Int. Class A24c 5/00.

"AN APPARATUS FOR FORMING PERFORATIONS IN BAR-SHAPE ARTICLES".

Applicant : G.D. SOCIETA' PER AZIONI, AN ITALIAN COMPANY OF VIA POMPONIA, 10 40100 BOLOGNA, ITALY.

Inventors : ENZO SERAGNOLI AND RICCARDO MATTEI.

Application for Patent No. 270/Del/1983 filed on 26th April 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

7 Claims

An apparatus for forming perforations in bar-shape articles, in particular cigarettes, comprising :

- a conveyor (6) for translating said articles (5) transversely of their axes along a path of advancement, the said conveyor (6) supporting the said articles (5) spaced with a constant separation pitch P;
- a coupling device (29) carried by said conveyor (6) for coupling each said article (5) to the said conveyor (6) along at least a part of the said path; the said coupling device (29) including, for each said article (5), a holding member (28) movable with the said conveyor (6) and rotatable about its axis to impart to the associated article (5), together with the said translation along the said path, a rotation about its axis; and
- at least one laser ray generator unit (56) located along the central axis of said coupling device and holding member and provides a laser beam for reflection radially on said article (5) and forming on each said article (5), at least one ring (2) of perforations (3) during the said rotation thereof about its axis.

Complete specification 17 pages.

Drawing 2 sheets.

Class 10 B.

159564.

Int. Class F 42b 3/10.

AN APPARATUS FOR INITIATING ELECTRIC DETONATORS.

Applicant(s) : IMPERIAL CHEMICAL INDUSTRIES PLC., A BRITISH COMPANY OF IMPERIAL CHEMICAL HOUSE, MILLBANK, LONDON SW1P 3JF, ENGLAND.

Inventor(s) : PETER JOHN SAUNDERS.

Application for Patent No 338/Del/1983 filed on 23rd May, 1983.

Convention date 3rd June, 1982/8216211/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

19 Claims

An apparatus for initiating electric detonators comprising :

- a master control unit (MCU) operable from a source of electrical power to provide firing energy and a firing signal for initiating said detonators; at least one multi-channel exploder (MCE) having output connection means provided in each channel for connection to a detonator circuit containing at least one electric detonator;

- and a common communication link comprising at least electrical conductors connecting the MCU to the MCE or to each said MCE in parallel;

each MCE comprising :

- energy storage means for receiving and storing electrical energy provided by the MCU, at least one impedance measuring means connected in use, to the output connection means of each channel and to the communications link, said impedance measuring means being operative to test the impedance of any detonator circuit connection to the output connection means of the MCE and to communicate to the MCU whether the detonator circuit is complete or broken;

at least one firing current generator connected to said communications link and responsive to a firing signal from the MCU, said firing current generator being connected, in use between said communications link and said output connection means of each channel to discharge a firing current into each detonator circuit connected to the output connection means at a predetermined time interval after receipt of the firing signal;

and said MCU comprising an electrical energy source to provide the electrical energy requirements of the apparatus, an interrogating means connected to the common communications link to communicate with each impedance measuring means to determine whether or not all detonator circuits connected to each MCE are complete, and a firing signal generator which is operable to provide a firing signal to each MCE is prevented by said interrogating means from providing said firing signal if any detonator circuit is not complete;

Complete specification 26 pages

Drawings 3 sheets:

Class 5 D.

159565.

Int. Class A01d—43/00.

"AN INTEGRAL HARVESTER COMBINE AND BALER".

Applicant : PUNJAB TRACTOR LTD; OF PHASE IV, SAHIBZADA AJIT SINGH NAGAR, DISTT. ROPAR-160051, INDIA, AN INDIAN COMPANY.

Inventors : CHANDRA MOHAN & GURSHARAN SINGH RIHAL.

Application for Patent No. 343/Del/1983 filed 24th May, 1983.

Complete specification left on 6th September, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

6 Claims

An integral harvester combine and baler comprising a baling chamber on one side of the rear part of the harvester combine, a chute at the rear of the harvester combine for receiving straw from straw walkers of the harvester combine, an auger adjacent the said chute for collecting and forcing the straw into the baling chamber, one or more feed arms provided between said auger and chamber for feeding the straw forced by the auger into the baling chamber, a reciprocable piston in the baling chamber for compressing the straw within the said chamber, and means for rotating the auger means for reciprocating the said piston, means for actuating the said feed arm or arms and means for operating a knotting device mounted on said chamber, all the said means being operated from the engine of the harvester combine.

Provisional specification 5 pages.

Drawing 2 sheets.

Complete specification 8 pages.

Class 102 B D.

159566.

Int. Class F15b—21/12 & E21c—45/00.

'PULSE HYDRAULIC MONITOR'.

Applicant : DONETSKY POLITEKHNIЧЕСKY INSTITUT OF ULITSA ARTEMA, 58 DONETSK, U.S.S.R., A SOCIETY ORGANISED UNDER THE LAWS OF U.S.S.R.

Inventors : GRIGORY MARKOVICH TIMOSHENKO, VALENTIN MIKHAILOVICH, VASILY SEMENOVICH GORIVICH TIMOSHENKO, PETR FEDOTOVICH ZIMA, ALEXANDR ZINOVIEVICH ASTRAKHAN, OVERKO VALENTIN MIKHAILOVICH, VASILY SEMENOVICH ISADCHENKO, STANISLAV ANTONOVICH LENENKO, GENNADY GRIGORIEVICH GOLDYNSKY, KARO ARTE-

MOVICH OSMANIAN, EVGENY GRIGORIEVICH ARLOV, GEORGY VASILIEVICH MALEEV, IGOR ANTONOVICH KZUMICH, BORIS YAKOVIEVICH EKBER AND NIKOLAI ALEXANDROVICH KRESCHENKO.

Application for Patent No. 389/Del/1983 filed on 8th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

11 Claims.

A pulse hydraulic monitor comprising :

- at least two barrels for alternately directing a pulsating jet of hydraulic liquid onto a target;
- valve means for dividing the flow of said hydraulic liquid, having an inlet for said hydraulic liquid supplied from a pressure source, and at least two outlets for delivering said hydraulic liquid into the corresponding barrels;
- pulse-forming means including a through hollow enclosure member in hydraulic relationship with said barrels, a separating member disposed within said enclosure member and movable between two end positions relative to said barrels so as to assume one of said end positions for forming a pulse at a moment when the pressure of the hydraulic liquid flowing in the corresponding barrel as a result of changing over of said valve means assumes a predetermined value, and at least two limit stops for terminating the motion of said separating member at its end position for forming a pulse, each limit stop being functionally associated with the corresponding barrel;
- means for retarding the motion of said separating member, arranged in the cavity of said enclosure member of said pulse-forming means so that it is subjected to a constant force applied from one side and interacts with said separating member on the other side in response to the action of the constant force applied from said one side and an increasing force produced as a result of an increase in the hydraulic liquid pressure in the corresponding barrel, from the other side.

Complete specification 28 pages.

Drawing 5 sheets.

CLASS : 108 C.

159567

Int. Cl. : C21c—5/28, 7/04.

'A METHOD FOR PRODUCTION OF LOW HYDROGEN STEEL'.

Applicant : UNION CARBIDE CORPORATION, Manufacturers, a corporation organised under the laws of the State of New York, located at : Old Ridgebury Road, Danbury, State of Connecticut, 06817, United States of America.

Inventor : ROCKNE JAMES ANDREINI.

Application for Patent No. 433/Del/1983 filed on 28th June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

2 Claims

A method for production of low hydrogen steel by sub-surface pneumatic refining in a refining vessel comprising :

- substantially completing all alloying additions prior to the commencement of oxygen injection into the steel melt;
- substantially completing all of slag-forming additions prior to the commencement of oxygen injection into the melt ;
- maintaining a slag composition compatible with minimizing hydrogen transfer from the slag to the melt ; characterized by
- injecting oxygen for removing at least 0.35% carbon from the melt and

thereby maintaining a minimum of about 400 SCF/ton total off-gas volume (including carbon monoxide formation);

blowing oxygen at a minimum specific rate of about 1200 SCF/hr-ton of steel during the oxygen injection sequence of refining;

injecting substantially oxygen-free gas such as herein described into the melt subsequent to the oxygen injection sequence, at least at about 200 SCF per ton of steel per percent of alloy addition(s) made during this period, at such a rate so that the Reynolds Number associated with the off-gas flow at the vessel mouth during this period is not greater than about 1200;

minimizing air infiltration to the vessel during the oxygen free gas injection step by swinging the hood of fume collector away from the mouth of said vessel to which the fume collector is connected and completing the process after decarburization within a time period of 15 minutes.

Compl. Specn. 16 pages.

CLASS : 125 B₂,a.

159568

Int. Cl. : B 67 d, 1/04 & B 41 j, 33/36.

"DEVICE FOR DISPENSING VISCOUS MATERIALS".

Applicant : G. D. SOCIETA PER AZIONI, an Italian Company, of Via Pomponia, 10, Bologna, Italy.

Inventor : BELVEDERI BRUNO.

Application for Patent No. 487/Del/1983 filed on 18th July, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

Device for dispensing viscous materials, particularly but not essentially, printing inks, comprising: an air tight container, a first pipe connecting the inside of said container to a nozzle for supplying the material to a consumption area, a second pipe for connecting the inside of said container to a tube, said tube being connected, with the interposition of an air flow regulator, to a source of compressed air, and means for fixing, inside the said container, a cartridge of viscous material provided with a first and a second aperture, placed with said first aperture in the region of the inlet of the said first pipe and communicating, via said second aperture, with the said second pipe.

Compl. Specn. 8 pages.

Fig. 1 sheet.

APPLICATION REFUSED UNDER SECTION 15 OF THE PATENTS ACT, 1970

Application for Patent No. 424/Del/84 made by the Union Carbide Corporation on the 19th May, 1984 has been refused by the Controller under Section 15 of the Patents Act, 1970.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy :—

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PATENTS SEALED

144922 145044 145431 156025 156026 156535 157140
157321 157396 157519 157520 157521 157522 157530
157537 157538 157548 157551 157552 157559 157567
157568 157570 157571 157572 157573 157574 157576
157577 157579 157581 157583 157584 157585 157586
157592 157624 157631 157633 157653 157659.

STATEMENT REGARDING LICENCE AGREEMENTS OF PATENTS REGISTERED UNDER SECTION 68 & 69 FOR THE PERIOD OF JANUARY 1987 TO MARCH 1987

FROM FOREIGNERS TO INDIAN

Patent Nos.	Patentee	Licence granted to	Licence granted on	Entry made under sec.	Entry made on
138313, 139834, 144711, 138360, 141060, 144888, 142780, 145702, 143508, 145313, 134274, 147282, and 150912	Smidth and Co. A/S, DENMARK	Larson & Toubro Limited, Narottam Morarji Marg, Ballard Estate, Bombay, INDIA.	24-4-1985	68 & 69	6-2-1987

**STATEMENT REGARDING LICENCE AGREEMENTS OF PATENTS REGISTERED UNDER SECTION 68 AND 69 FOR THE PERIOD OF JANUARY 1987 TO MARCH 1987
(FROM INDIAN TO INDIAN)**

143745	National Research Dev. Corpn. of India, NEW DELHI.	Sri P. Supra Sena Reddy of M/s. Colabo Chemicals, Hyderabad, India.	24-6-1986	68	24-3-1987
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STATEMENT REGARDING GIFT OF PATENTS REGISTERED UNDER SECTION 68 & 69 FOR THE PERIOD OF JANUARY 1987 TO MARCH 1987

(FROM INDIAN TO INDIAN)

Patent No.	Patentee	Gift in favour of	Gift made on	Entry made Under Section	Entry made on
148988	Sri Ram Singh Jayswal, Jamshedpur, Bihar, INDIA.	1. Smt. Kamala Kumari Jayswal (Wife) 2. Sri Probhat Singh Jayswal (Son) 3. Birendra Singh Jayswal (Son)	22-9-86	68 and 69	27-1-87

STATEMENT REGARDING ASSIGNMENTS OF PATENTS REGISTERED UNDER SECTIONS 68 & 69 FOR THE PERIOD OF JANUARY 1987 TO MARCH 1987

(FROM INDIAN TO INDIAN)

Patent No.	Patentee	Assigned to	Assigned on	Entry made Under Sec.	Entry made on
153328	Boji Raja Ram, Deputy Director (Research Civil), Ardhamoole, Ramkrishna Bhat (Chief Research Asstt.) Mani Bhusan Chakroborty (Senior Research Asstt.) all of Research Designs and Standards Organisation, Ministry of Railways, India.	The Priesedent, Union of India	5—7—85	68	12—1—87
140668	Council of Scientific and Industrial Research, New Delhi.	National Research Development Corpn. of India, New Delhi	26-12-86	68	11-2-87

RENEWAL FEES PAID

138361	138925	139101	139125	141100	141224	141434
141923	142409	142454	142505	142523	142524	143063
143498	144384	144498	144558	144737	144760	144898
145000	145059	145261	145327	145378	145398	145644
145711	145896	145946	146161	146901	146931	147879
147919	148531	148535	148592	148622	148981	148982
149046	149533	149905	150424	150558	150749	150922
150930	150942	151032	151061	151260	151312	151364
151583	151604	151772	151947	151988	152165	152329
152330	152377	152378	152441	152449	152565	152601
152687	152724	152793	152874	152938	153010	153011
153108	153132	153159	153219	153349	153350	153744
153886	154048	154091	154114	154362	154472	154493
154580	154597	154602	154642	154658	154949	155063
155119	155345	155352	155475	155476	155581	155646
155655	155670	155671	155727	155798	155800	155801
155802	155803	155874	155949	155963	155993	156100
156199	156275	156307	156349	156393	156507	156659
156667	156803	156862	157002	157081	157334	157350
157364	157403	157464	157682			

CESSATION OF PATENTS

146610 147286 149765.

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 144575 granted to The Babcock & Wilcox Company for an invention relating to "a method of recovering chemicals from the residual waste liquor obtained from chemical pulping process of cellulosic materials".

The patent ceased on the 4-2-86 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India Part-III, Section 2, dated the 21-3-87.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 23rd July, 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 149389 granted to Indian Institute of Technology for an invention relating to "an internal combustion engine".

The Patent ceased on 21-5-86 due to non-payment of renewal fees within the prescribed time and the cessation

of the patent was notified in the Gazette of India, Part-III, Section 2, dated 21-3-87.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 23rd July 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 155225 granted to Shyam Narasinga Rao for an invention relating to "cosmetic cleanser container".

The patent ceased on the 25-6-86 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 21-3-87.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 23rd July 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 155755 granted to Nattoji Shara Shanker-narayan Rao for an invention relating to "gum application device".

The patent ceased on the 24-12-86 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 21-3-87.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 23rd July 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 157540. Honda Giken Kogyo Kabushiki Kaisha (also trading as Honda Motor Co. Ltd.), a Corporation of Japan, of No. 1-1, Minamioyama 2-chome, Minato-ku, Tokyo, Japan a "Power Generator". 14th October, 1986.

Class 1. No. 157693, Daimler-Benz Aktiengesellschaft, a German Company of Stuttgart-Unterturkheim, Federal Republic of Germany. an "OMNIBUS". 19th November, 1986.

Class 1. No. 157722. Rocket Engineering Corpn. Pvt. Ltd., P. B. No. 178, 33 Udyamagar Ext., Kolhapur 416001, Maharashtra State, India, an Indian Company. "a Cylinder Block". 27th November, 1986.

Class 1. Nos. 157723, 157724. Rocket Engineering Corpn. Pvt. Ltd., P. B. No. 178, 33 Udyamnagar Ext., Kolhapur 416001, Maharashtra State, India, an Indian Company. "a Fuel Tank Bracket". 27th November, 1986.

Class 3. No. 157517. Lucy Cosmetics of First Floor, New Market, Bombay-400 002, State of Maharashtra, India, a Proprietary business. "Container". 8th October, 1986.

Class 3. No. 157539. Geep Industrial Syndicate Limited, (formerly known as Geep Flashlight Industries Limited), Manufacturers, of 28, South Road, Allahabad, U. P., India, an Indian Company. "a Dry Cell Hand Torch". 14th October, 1986.

Class 3. No. 157614. Handymate Limited, a British Company of London House, 271/273, King Street, Hammersmith, London W6 9LZ, England, a "HAND TOOL". 30th October, 1986.

Extn. of Copyright for the Second period of five years.

Nos. 151998, 151653, 151775.....Class-L

Nos. 151902, 151901, 151907, 157155, 155799, 155554, 155077, 155402, 156410, 151627, 151746, 151747, 151764, 151762, 151763, 151395, 150719, 151633, 151792..Class-3.

No. 151712. Class-4.

Extn. of Copyright for the Third period of five years.

Nos. 157155, 155799, 155554, 155077, 155402, 144810, 156410, 151395. Class-3.

R. A. ACHARYA
Controller General of Patents,
Designs and Trade Marks.